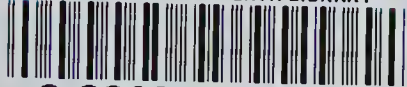


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Houghton Mifflin Mathematics 6

Testing & Practice Masters

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provided in the *Teacher's Resource Book* for this grade level.

Class Record Chart for Tests

[illegible]

Name _____

Pretest

Unit 1

Write in expanded form.

1. 37 572
2. 6 402 470
3. 973 096 008

Write in standard form.

4. eighty-one million twenty thousand thirteen _____
5. thirty-nine billion six hundred six million nine _____
6. seven hundred billion seven hundred million seven hundred _____

Write the place value of the underlined digit.

7. 649 286 104 062 _____
8. 95 137 549 126 _____
9. 297 158 489 776 _____
10. 624 100 723 527 _____

Complete using $<$ or $>$.

11. 47 372 _____ 47 273
12. 92 528 _____ 92 529

Round 6 876 101 to the nearest

13. thousand _____
14. hundred thousand _____
15. million _____

Write as a decimal in standard form.

16. $0.7 + 0.08$ _____
17. $30 + 2 + 0.7 + 0.01$ _____
18. $5 + 0.9 + 0.06 + 0.005$ _____
19. $0.01 + 0.004 + 0.0003$ _____
20. twenty and six hundredths _____
21. four and fourteen hundredths _____
22. ninety-three and three tenths _____
23. $\frac{7}{10}$ _____
24. $\frac{95}{10}$ _____
25. $\frac{6}{100}$ _____
26. $\frac{38}{1000}$ _____
27. $\frac{12}{10\ 000}$ _____

Complete.

28. $0.7 = 0.$ _____
29. $52.$ _____ $= 52.7$
30. $4.08 = 4.$ _____

Complete using $<$ or $>$.

31. 5.09 _____ 5.9
32. 8 _____ 7.9
33. 32.79 _____ 32.779

Round 8.7526 to the nearest

34. tenth _____
35. hundredth _____
36. thousandth _____



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Name _____

Extra Practice

Worksheet N1

Pages 2-3

Write the place value of the underlined digit.

1. 29 106 358

2. 46 247 109

3. 726 247 165

4. 874 195 262

5. 57 346 265

6. 864 237 186

Write the numeral that is one less.

7. 54 011 _____

8. 902 170 _____

9. 5 485 799 _____

10. 38 649 100 _____

11. 10 000 _____

12. 26 502 700 _____

Write in standard form.

13. four hundred million sixty-two thousand _____

14. two million three hundred six thousand _____

Extra Practice

Worksheet N2

Pages 4-5

Write in expanded form.

1. 236 172

2. 81 421

3. 32 106 000

4. 92 175 000 002

5. 9 216 109

6. 608 000 806

Write the numeral that is one less.

7. 1080 _____

8. 100 000 _____

9. 1 000 100 _____

10. 1 000 000 _____

11. 1 000 000 000 _____

12. 101 000 000 _____

Write in standard form.

13. seventeen billion four hundred three million _____

14. two billion nine hundred million four hundred thousand _____

Extra Practice

Worksheet N3

Pages 6-7

Which of these pairs of numbers has more ten thousands?

1. 290 137 or 546 821 _____
2. 8 243 190 or 4 568 216 _____
3. 39 870 045 or 86 102 975 _____
4. 10 000 or 65 000 000 _____
5. Count by thousands from 97 000 to 105 000.

6. Count by ten thousands from 888 000 to 998 000.

7. Count by hundred thousands from 767 000 to 1 067 000.

8. Count by millions from 694 185 000 to 710 185 000.

Extra Practice

Worksheet N4

Pages 8-9

Complete the chart.

Round to nearest	hundred	thousand	ten thousand	million
1. 37 108 524				
2. 96 813 981				
3. 65 521 459				
4. 70 908 732				
5. 43 255 400				
6. 29 967 102				
7. 55 853 217				
8. 99 129 804				
9. 40 007 100				
10. 65 416 230				

Extra Practice**Worksheet N5**

Pages 10-11

Write the decimal.

1. $\frac{1}{10}$ _____ 2. $\frac{3}{10}$ _____ 3. $\frac{7}{10}$ _____ 4. $\frac{1}{100}$ _____ 5. $\frac{47}{100}$ _____

6. seventy-two hundredths _____ 7. nine hundredths _____

8. four tenths _____ 9. thirty hundredths _____

10. eight hundredths _____ 11. fourteen hundredths _____

Write in words.

12. 0.9 _____ 13. 0.35 _____

14. 0.70 _____ 15. 0.07 _____

Draw a picture of

16. 0.2 17. 0.45 18. 0.6

Extra Practice**Worksheet N6**

Pages 12-13

Write the place value of the underlined digit.

1. 37 _____ 2. 56.67 _____ 3. 92.24 _____

4. 0.8 _____ 5. 425.81 _____ 6. 156.74 _____

Write the decimal.

7. seven and seventy-two hundredths _____

8. fourteen and three tenths _____

9. forty-three and fifty-three hundredths _____

10. seven tenths _____

11. six hundred and five hundredths _____

12. eighty-seven and eighty-seven hundredths _____

Name _____

Extra Practice

Worksheet N7

Pages 14-15

Write the place value of the 4 in each numeral.

1. 0.435 _____
2. 56.1432 _____
3. 376.1049 _____
4. 478.0713 _____

Write in standard form.

5. $\frac{275}{1000}$
6. $\frac{96}{1000}$
7. $\frac{2735}{10\ 000}$
8. forty-eight and six thousand five hundred four ten-thousandths _____
9. nine and two hundred eighteen thousandths _____
10. three thousand and three thousandths _____

Write in expanded form.

11. 67.0495 _____
12. 3762.4019 _____

Extra Practice

Worksheet N8

Pages 16-17

Write an equivalent decimal in tenths.

1. 0.20 _____
2. 7.500 _____
3. 16.90 _____
4. 0.300 _____
5. 47 _____
6. 48.00 _____

Write an equivalent decimal in hundredths.

7. 3.9 _____
8. 18 _____
9. 52.710 _____
10. 4.350 _____
11. 0.400 _____
12. 75.1000 _____

Write an equivalent decimal in thousandths.

13. 4.6 _____
14. 7 _____
15. 64 _____
16. 7.4000 _____
17. 0.94 _____
18. 7.2 _____

Extra Practice

Worksheet N9

Pages 18-19

Complete using < or >.

1. 0.4 ____ 0.3
2. 2.7 ____ 2.65
3. 1.09 ____ 1.10
4. 17 ____ 16.995
5. 0.4 ____ 0.39
6. 10.004 ____ 10.05
7. 0.423 ____ 0.5
8. 4.2 ____ 4.310
9. 17.08 ____ 17.009

Write in order starting with the greatest.

10. 0.310, 0.030, 0.33_____
11. 0.40, 0.404, 0.401_____
12. 0.22, 0.022, 0.221_____

Complete.

13. 2.01, 2.02, 2.03, _____, _____, _____, _____, _____, 2.10
14. 0.004, 0.005, 0.006, _____, _____, _____, _____, _____, 0.012
15. 6.20, 6.21, 6.22, _____, _____, _____, _____, _____, 6.29

Extra Practice

Worksheet N10

Pages 20-21

Complete the table.

Round to nearest	tenth	hundredth	thousandth	whole number
1. 4.0999				
2. 26.1387				
3. 8.7562				
4. 0.0079				
5. 23.8448				
6. 5.9142				
7. 9.9999				
8. 30.1255				

Post-test**Unit 1**

Write in expanded form.

1. 65 479

2. 7 509 147

3. 679 003 402

Write in standard form.

4. ninety million six thousand _____

5. twenty-one billion two hundred four _____

6. four hundred billion two hundred million four hundred _____

Write the place value of the underlined digit.

7. 294 106 217 621 _____

8. 869 135 426 372 _____

9. 308 427 552 495 _____

10. 980 486 349 098 _____

Complete using $<$ or $>$.

11. 91 064 ____ 91 046

12. 71 864 ____ 71 863

Round 5 716 048 to the nearest

13. thousand _____ 14. ten thousand _____ 15. million _____

Write as a decimal in standard form.

16. $0.2 + 0.04$ _____

17. $70 + 5 + 0.6 + 0.08$ _____

18. $8 + 0.7 + 0.08 + 0.006$ _____

19. $0.05 + 0.009 + 0.0001$ _____

20. fourteen and nineteen hundredths _____

21. six and two hundredths _____ 22. fifty-seven and four tenths _____

23. $\frac{6}{10}$ _____ 24. $\frac{81}{10}$ _____ 25. $\frac{8}{100}$ _____ 26. $\frac{12}{1000}$ _____ 27. $\frac{9}{10\ 000}$ _____

Complete.

28. $0.2 = 0.$ ____ ____

29. $4.$ ____ ____ $= 4.9$

30. $7.06 = 7.$ ____ ____

Complete using $<$ or $>$.

31. 7.08 ____ 7.1

32. 3 ____ 2.9999

33. 56.97 ____ 56.978

Round 6.7961 to the nearest

34. tenth. _____ 35. hundredth. _____ 36. thousandth. _____

Pretest**Unit 2**

Find the sum.

$$\begin{array}{r} 1. \quad 263 \\ + 74 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 247 \\ + 956 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 129 \\ + 938 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 647 \\ \quad 23 \\ + 815 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6745 \\ + 384 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 71\,324 \\ + 9\,758 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 68\,954 \\ + 37\,819 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 41\,657 \\ \quad 86 \\ + 9\,218 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \$7.25 \\ + 0.89 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \$75.76 \\ + 19.18 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \$73.26 \\ \quad 1.95 \\ + 42.82 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \$35.62 \\ \quad 8.41 \\ + 73.87 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 5.27 \\ + 4.8 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 32.8 \\ + 7.324 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 9.8 \\ \quad 24.63 \\ + 8.297 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 0.87 \\ \quad 0.6 \\ + 0.759 \\ \hline \end{array}$$

$$17. \quad 47 + 9 + 425 + 62 = \underline{\hspace{2cm}} \quad 18. \quad 6.7 + 53 + 9.05 + 4.876 + 8 = \underline{\hspace{2cm}}$$

Find the difference.

$$\begin{array}{r} 19. \quad 324 \\ - 95 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 408 \\ - 179 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 9016 \\ - 625 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad 8943 \\ - 1275 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 60\,102 \\ - 8\,519 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 90\,001 \\ - 37\,152 \\ \hline \end{array}$$

$$\begin{array}{r} 25. \quad \$2.71 \\ - 1.85 \\ \hline \end{array}$$

$$\begin{array}{r} 26. \quad \$70.00 \\ - 35.98 \\ \hline \end{array}$$

Subtract. Check by adding.

$$\begin{array}{r} 27. \quad 3.7 \\ - 2.9 \\ \hline \end{array}$$

$$\begin{array}{r} 28. \quad 5.3 \\ - 0.38 \\ \hline \end{array}$$

$$\begin{array}{r} 29. \quad 47.0 \\ - 0.865 \\ \hline \end{array}$$

$$\begin{array}{r} 30. \quad 9.0 \\ - 0.85 \\ \hline \end{array}$$

Solve.

31. Suppose you spent \$10.95 on a belt and \$8.95 on a T-shirt. How much change would you get from \$20.00?

Extra Practice**Worksheet A1**

Pages 26-27

Find the sum.

$$\begin{array}{r} 1. \quad 483 \\ + 897 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 25 \\ \quad 9 \\ + 647 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 375 \\ \quad 87 \\ + 845 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 6 \\ \quad 27 \\ + 998 \\ \hline \end{array}$$

5. $36 + 127 + 9 = \underline{\hspace{2cm}}$

6. $84 + 3 + 726 = \underline{\hspace{2cm}}$

Round to the nearest hundred. Write the estimated sum.

7. $229 + 683 + 107 = \underline{\hspace{2cm}}$

8. $812 + 260 + 247 = \underline{\hspace{2cm}}$

Solve.

9. The distance between Montreal and Ottawa is 558 km. What is the total distance travelled on a round trip?

Extra Practice**Worksheet A2**

Pages 28-29

Find the sum.

$$\begin{array}{r} 1. \quad 71\,526 \\ + 4\,825 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 34\,809 \\ + \quad 657 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 5\,642 \\ + 89\,734 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 647 \\ + 96\,829 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 47\,562 \\ + 52\,438 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 623 \\ \quad 8\,975 \\ + 64\,826 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 27\,764 \\ \quad 917 \\ + 6\,095 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 843 \\ \quad 26\,485 \\ + 9\,978 \\ \hline \end{array}$$

9. $29 + 6438 + 26\,517 = \underline{\hspace{2cm}}$

10. $8924 + 93\,826 + 5763 = \underline{\hspace{2cm}}$

Round to the nearest thousand. Write the estimated sum.

11. $6425 + 7592 + 9160 = \underline{\hspace{2cm}}$

12. $3117 + 7258 + 8864 = \underline{\hspace{2cm}}$

Solve.

13. The air distance from Calgary to Toronto is 3378 km. What is the total air distance of a round trip flight between these two cities?

Extra Practice**Worksheet M1**

Pages 30-31

Find the sum.

$$\begin{array}{r} 1. \quad \$74.28 \\ + \quad 9.85 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \$352.86 \\ + \quad 4.55 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \$ 86.98 \\ + \quad 751.32 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad \$ 2.48 \\ + \quad 139.56 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \$ 16.45 \\ \quad 275.86 \\ + \quad 3.50 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \$276.87 \\ \quad 9.49 \\ + \quad 36.27 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad \$956.21 \\ \quad 47.89 \\ + \quad 6.55 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \$867.42 \\ \quad 35.29 \\ + \quad 417.26 \\ \hline \end{array}$$

$$9. \quad \$426.85 + \$37.86 + \$2.38 = \underline{\hspace{2cm}} \quad 10. \quad \$25.63 + \$39.77 + \$524.95 = \underline{\hspace{2cm}}$$

Round to the nearest ten dollars. Write the estimated sum.

$$11. \quad \$42.35 + \$79.25 + \$91.99 = \underline{\hspace{2cm}} \quad 12. \quad \$12.95 + \$49.99 + \$17.10 = \underline{\hspace{2cm}}$$

Solve.

13. Mrs. Axley's air ticket cost \$159.95. Her taxi ride cost \$16.50 and the hotel charge was \$84.50. What was the total cost of the transportation on her trip?

Extra Practice**Worksheet A3**

Pages 32-33

Find the sum.

$$1. \quad 9.2 + 35 + 16.78 = \underline{\hspace{2cm}}$$

$$2. \quad 1.457 + 3.9 + 65.73 = \underline{\hspace{2cm}}$$

$$3. \quad 347.8 + 0.864 + 48 = \underline{\hspace{2cm}}$$

$$4. \quad 5.63 + 2.178 + 784.36 = \underline{\hspace{2cm}}$$

$$5. \quad 36.5 + 8.489 + 637 = \underline{\hspace{2cm}}$$

$$6. \quad 26.98 + 175 + 3.486 = \underline{\hspace{2cm}}$$

$$7. \quad 3.7 + 48.75 + 0.089 = \underline{\hspace{2cm}}$$

$$8. \quad 495 + 6.72 + 18.437 = \underline{\hspace{2cm}}$$

Round to the nearest whole number. Write the estimated sum.

$$9. \quad 5.6 + 24.13 + 2.1 = \underline{\hspace{2cm}}$$

$$10. \quad 65.12 + 7.9 + 8.2 = \underline{\hspace{2cm}}$$

$$11. \quad 3.7 + 31.08 + 5.9 = \underline{\hspace{2cm}}$$

$$12. \quad 4.5 + 8.5 + 32.99 = \underline{\hspace{2cm}}$$

Solve.

13. If boards 3 m long, 1.75 m long, and 2.3 m long are laid end to end, what is their combined length?

Extra Practice**Worksheet A4**

Pages 34-35

Find the sum.

1. $257 + 6 + 95 + 8 + 135 = \underline{\hspace{2cm}}$
2. $4 + 88 + 375 + 7 + 29 = \underline{\hspace{2cm}}$
3. $6 + 29 + 468 + 94 + 367 = \underline{\hspace{2cm}}$
4. $5126 + 2 + 37 + 574 + 6 = \underline{\hspace{2cm}}$
5. $3 + 4.2 + 0.65 + 41 + 8 = \underline{\hspace{2cm}}$
6. $12 + 3.76 + 1.2 + 386 + 7 = \underline{\hspace{2cm}}$
7. $46 + 925 + 8.72 + 7 + 0.4 = \underline{\hspace{2cm}}$
8. $0.125 + 28 + 3.4 + 4.69 + 8 = \underline{\hspace{2cm}}$

Round to the nearest ten. Write the estimated sum.

9. $27 + 18 + 11 + 42 = \underline{\hspace{2cm}}$
10. $38 + 19 + 12.5 + 27.9 = \underline{\hspace{2cm}}$
11. $82 + 68 + 96 + 55 = \underline{\hspace{2cm}}$
12. $73 + 47 + 69 + 32.5 = \underline{\hspace{2cm}}$

Solve.

13. Mr. Ennis' suitcases have masses of 16.3 kg, 7.9 kg, and 5.2 kg. What is their total mass?

Extra Practice**Worksheet A5**

Pages 36-37

Find the difference. Check by adding.

1.
$$\begin{array}{r} 321 \\ - 89 \\ \hline \end{array}$$
2.
$$\begin{array}{r} 564 \\ - 319 \\ \hline \end{array}$$
3.
$$\begin{array}{r} 801 \\ - 23 \\ \hline \end{array}$$
4.
$$\begin{array}{r} 400 \\ - 327 \\ \hline \end{array}$$
5. $653 - 78 = \underline{\hspace{2cm}}$
6. $405 - 278 = \underline{\hspace{2cm}}$
7. $300 - 124 = \underline{\hspace{2cm}}$
8. between 95 and 546
 $\underline{\hspace{2cm}}$
9. between 257 and 99
 $\underline{\hspace{2cm}}$
10. between 745 and 902
 $\underline{\hspace{2cm}}$

Round to the nearest hundred. Write the estimated difference.

11. $395 - 219 = \underline{\hspace{2cm}}$
12. $627 - 113 = \underline{\hspace{2cm}}$
13. $878 - 243 = \underline{\hspace{2cm}}$

Solve.

14. Ms. Walker drove 369 km from Toronto to Windsor one day. Another day she drove 399 km to Ottawa. How much farther is Ottawa from Toronto?

Extra Practice**Worksheet A6**

Pages 38-39

Find the difference.

$$\begin{array}{r} 1. \quad 7124 \\ - 3786 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 90\,105 \\ - 6\,912 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 29\,478 \\ - 19\,575 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 50\,020 \\ - 986 \\ \hline \end{array}$$

$$5. \quad 7412 - 6424$$

$$6. \quad 9001 - 5762$$

$$7. \quad 9000 - 2316$$

$$8. \quad \text{between } 3509 \text{ and } 848 \text{ _____}$$

$$9. \quad \text{between } 21\,324 \text{ and } 9655 \text{ _____}$$

$$10. \quad \text{between } 10\,000 \text{ and } 1895 \text{ _____}$$

Round to the nearest thousand. Write the estimated difference.

$$11. \quad 6526 - 3417$$

$$12. \quad 8777 - 2113$$

$$13. \quad 7795 - 3408$$

Solve.

14. A jet is flying at an altitude of 11 500 m above sea level over a mountain peak that is 2478 m high. How much higher is the plane than the top of the mountain?

Extra Practice**Worksheet M2**

Pages 40-41

For each amount spent, find the fewest coins and bills needed to give change from \$10.00.

$$1. \quad \$1.49 \text{ _____}$$

$$2. \quad \$7.75 \text{ _____}$$

$$3. \quad \$5.15 \text{ _____}$$

For each amount spent, find the change from \$100.00.

$$4. \quad \$59.95 \text{ _____}$$

$$5. \quad \$92.35 \text{ _____}$$

$$6. \quad \$89.95 \text{ _____}$$

Solve.

7. Mr. Rossi spent \$35.25 on a sweater and \$19.89 on a shirt. What is his change from \$60.00?
8. Marlene spent \$11.59 on aquarium fish. She received \$8.41 in change. How much money did she give the clerk?

Extra Practice**Worksheet A7**

Pages 42-43

Find the difference. Check by adding.

1.
$$\begin{array}{r} 3.2 \\ - 1.24 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 0.4 \\ - 0.175 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 42.6 \\ - 29.82 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 7.14 \\ - 6.957 \\ \hline \end{array}$$

5. $2.2 - 0.578 = \underline{\hspace{2cm}}$

6. $54.95 - 3.997 = \underline{\hspace{2cm}}$

7. $28.1 - 19.52 = \underline{\hspace{2cm}}$

8. $16.8 - 7.092 = \underline{\hspace{2cm}}$

Solve.

9. Is 2.78 closer to 5.31 or 0.23? _____
10. What is the difference between 11.1 and 11.01? _____
11. How much greater is 0.7 than 0.523? _____
12. How much less is 26.17 than 27? _____

Extra Practice**Worksheet PS2**

Pages 44-45

Solve.

- Paula delivered papers every morning from June 23 to August 5. For how many days did she deliver papers?
- Jack bought a tennis racquet for \$29.98 and a can of tennis balls for \$4.29. How much change did he get from \$35.00?
- Street skates went on sale for \$15.99. How much less is that than the regular price of \$24.98?
- Mrs. Beasley bought a lounge chair for \$12.28. She received \$7.62 change from \$20.00. Was that correct?

Post-test**Unit 2**

Find the sum.

$$\begin{array}{r} 1. \quad 342 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 736 \\ + 615 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 358 \\ + 295 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 312 \\ 91 \\ + 714 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6320 \\ + 247 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 42\,634 \\ + 9\,173 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 84\,657 \\ + 93\,748 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 57\,133 \\ 24 \\ + 6\,489 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad \$6.19 \\ + 0.24 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad \$32.41 \\ + 38.79 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \$41.38 \\ 6.23 \\ + 12.54 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \$36.27 \\ 1.15 \\ + 85.26 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 6.84 \\ + 7.9 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 82.5 \\ + 4.657 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 7.6 \\ 24.83 \\ + 6.947 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 0.12 \\ 0.9 \\ + 0.684 \\ \hline \end{array}$$

$$17. \quad 38 + 3 + 25 + 461 = \underline{\hspace{2cm}} \quad 18. \quad 5.7 + 24 + 3.14 + 5.213 + 9 = \underline{\hspace{2cm}}$$

Find the difference.

$$\begin{array}{r} 19. \quad 183 \\ - 29 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 507 \\ - 148 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 5017 \\ - 324 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \quad 5471 \\ - 3916 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 50\,210 \\ - 9\,532 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 60\,006 \\ - 29\,117 \\ \hline \end{array}$$

$$\begin{array}{r} 25. \quad \$6.15 \\ - 3.75 \\ \hline \end{array}$$

$$\begin{array}{r} 26. \quad \$40.00 \\ - 17.65 \\ \hline \end{array}$$

Subtract. Check by adding.

$$\begin{array}{r} 27. \quad 5.3 \\ - 2.8 \\ \hline \end{array}$$

$$\begin{array}{r} 28. \quad 7.2 \\ - 0.18 \\ \hline \end{array}$$

$$\begin{array}{r} 29. \quad 95.0 \\ - 0.364 \\ \hline \end{array}$$

$$\begin{array}{r} 30. \quad 5.0 \\ - 0.39 \\ \hline \end{array}$$

Solve.

31. At the grocery store, Mr. O'Malley spent \$10.25 on meat, \$4.65 on vegetables, \$2.25 on soft drinks, and \$1.69 on a dessert. How much change did he receive from \$50.00?

Pretest**Unit 3**

Find the product.

1.
$$\begin{array}{r} 75 \\ \times 6 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 491 \\ \times 8 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 658 \\ \times 4 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 7569 \\ \times 7 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 45 \\ \times 23 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 76 \\ \times 94 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 58 \\ \times 39 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 586 \\ \times 97 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 546 \\ \times 732 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 249 \\ \times 658 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 503 \\ \times 267 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 802 \\ \times 579 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 248 \\ \times 600 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 764 \\ \times 740 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 865 \\ \times 602 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 949 \\ \times 708 \\ \hline \end{array}$$

Calculate.

17. $4^2 =$ _____ 18. $10^5 =$ _____ 19. $2^6 =$ _____ 20. $9^1 =$ _____

21. $6^3 =$ _____ 22. $5^2 =$ _____ 23. $10^8 =$ _____ 24. $3^4 =$ _____

25. $2 \times 10^3 =$ _____ 26. $8 \times 10^4 =$ _____

Estimate the product.

27. $589 \times 47 =$ _____ 28. $58 \times 6.9 =$ _____ 29. $\$8.65 \times 47 =$ _____

Multiply.

30.
$$\begin{array}{r} 5\text{¢} \\ \times 8 \\ \hline \end{array}$$

31.
$$\begin{array}{r} \$0.04 \\ \times 2 \\ \hline \end{array}$$

32.
$$\begin{array}{r} \$6.08 \\ \times 32 \\ \hline \end{array}$$

33.
$$\begin{array}{r} \$27.25 \\ \times 76 \\ \hline \end{array}$$

34.
$$\begin{array}{r} 3.7 \\ \times 8 \\ \hline \end{array}$$

35.
$$\begin{array}{r} 98 \\ \times 6.2 \\ \hline \end{array}$$

36.
$$\begin{array}{r} 49.4 \\ \times 703 \\ \hline \end{array}$$

37.
$$\begin{array}{r} 975 \\ \times 80.5 \\ \hline \end{array}$$

38.
$$\begin{array}{r} 6.88 \\ \times 5 \\ \hline \end{array}$$

39.
$$\begin{array}{r} 56 \\ \times 0.38 \\ \hline \end{array}$$

40.
$$\begin{array}{r} 9.06 \\ \times 647 \\ \hline \end{array}$$

41.
$$\begin{array}{r} 395 \\ \times 4.07 \\ \hline \end{array}$$

Extra Practice**Worksheet A8**

Pages 50-51

Find the product.

$$\begin{array}{r} 1. \quad 67 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 397 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 407 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 702 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 7596 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 4839 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 9008 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 3087 \\ \times 8 \\ \hline \end{array}$$

$$9. \quad 4 \times 375 = 375 \times \underline{\hspace{2cm}}$$

$$10. \quad 9726 \times 8 = \underline{\hspace{2cm}} \times 9726$$

$$11. \quad (6 \times 4) \times 5 = 6 \times (\underline{\hspace{2cm}} \times 5)$$

$$12. \quad \underline{\hspace{2cm}} \times (9 \times 9) = (7 \times 9) \times 9$$

Solve.

13. Mrs. Blake wants a carpet for her hallway that costs \$28 a square metre. If her hallway is 1 m wide by 9 m long, how much should she pay for the carpet?

Extra Practice**Worksheet A9**

Pages 52-53

Find the product.

$$\begin{array}{r} 1. \quad 65 \\ \times 39 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 47 \\ \times 84 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 98 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 45 \\ \times 78 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 608 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 973 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 668 \\ \times 95 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 475 \\ \times 86 \\ \hline \end{array}$$

Copy and complete.

$$9. \quad 73 \times \underline{\hspace{2cm}} = 49 \times 73$$

$$10. \quad \underline{\hspace{2cm}} \times 19 = 19 \times 37$$

$$11. \quad 35 \times (\underline{\hspace{2cm}} \times 21) = (35 \times 62) \times 21$$

$$12. \quad (88 \times 43) \times 62 = 88 \times (\underline{\hspace{2cm}} \times 62)$$

Extra Practice**Worksheet A10**

Pages 54-55

Find the product.

$$\begin{array}{r} 1. \quad 721 \\ \times 352 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 601 \\ \times 542 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 324 \\ \times 697 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 408 \\ \times 975 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 497 \\ \times 267 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 506 \\ \times 967 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 809 \\ \times 721 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 948 \\ \times 732 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 766 \\ \times 528 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 896 \\ \times 758 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 398 \\ \times 742 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 879 \\ \times 986 \\ \hline \end{array}$$

Solve.

13. What number is 325 times greater than 463?

14. What number is 657 more than 973?

15. What number is 448 times greater than 762?

Extra Practice**Worksheet A11**

Pages 56-57

Find the product.

$$\begin{array}{r} 1. \quad 572 \\ \times 650 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 368 \\ \times 204 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 981 \\ \times 900 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 647 \\ \times 708 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 845 \\ \times 200 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 618 \\ \times 790 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 526 \\ \times 605 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 903 \\ \times 804 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 260 \\ \times 730 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 455 \\ \times 800 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 397 \\ \times 608 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 648 \\ \times 700 \\ \hline \end{array}$$

Solve.

13. One week, a department store made out 250 paycheques at \$425 each for its sales clerks, and 18 paycheques for its cashiers at \$450 each. How much did the store spend in one week on these salaries?

Extra Practice**Worksheet A12**

Pages 58-59

Calculate.

- | | | | |
|-------------------|--------------------|-------------------|-------------------|
| 1. $4^2 =$ _____ | 2. $10^3 =$ _____ | 3. $6^2 =$ _____ | 4. $9^3 =$ _____ |
| 5. $12^2 =$ _____ | 6. $1^5 =$ _____ | 7. $10^5 =$ _____ | 8. $20^3 =$ _____ |
| 9. $5^4 =$ _____ | 10. $10^1 =$ _____ | 11. $2^4 =$ _____ | 12. $1^7 =$ _____ |

Write the missing exponent.

- | | |
|---|--|
| 13. $8000 = 8 \times 10$ _____ | 14. $90\,000\,000 = 9 \times 10$ _____ |
| 15. $400\,000 = 4 \times 10$ _____ | 16. $50 = 5 \times 10$ _____ |
| 17. $600\,000\,000 = 6 \times 10$ _____ | 18. $2\,000\,000 = 2 \times 10$ _____ |

Extra Practice**Worksheet A13**

Pages 60-61

Estimate the product.

- | | | | |
|--|--|---|--|
| 1. $\begin{array}{r} 345 \\ \times 28 \\ \hline \end{array}$ | 2. $\begin{array}{r} 6.7 \\ \times 2.1 \\ \hline \end{array}$ | 3. $\begin{array}{r} 53.4 \\ \times 47 \\ \hline \end{array}$ | 4. $\begin{array}{r} \$19.95 \\ \times 52 \\ \hline \end{array}$ |
| 5. $\begin{array}{r} 9.8 \\ \times 34 \\ \hline \end{array}$ | 6. $\begin{array}{r} \$46.25 \\ \times 68 \\ \hline \end{array}$ | 7. $\begin{array}{r} 7.3 \\ \times 2.9 \\ \hline \end{array}$ | 8. $\begin{array}{r} 6.09 \\ \times 34 \\ \hline \end{array}$ |

Solve.

- Estimate the cost of 54 ball point pens at \$1.89 a pen.
- Estimate the number of hours in the life of a three-week-old baby.
- Twenty-four square metres of broadloom are needed for a floor.
Estimate the cost of the broadloom, if each square metre costs \$28.95.



Extra Practice**Worksheet M3**

Pages 62-63

Multiply.

$$\begin{array}{r} 1. \quad \$6.26 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad \$52 \\ \times \quad 25 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad \$0.04 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 12¢ \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad \$85.23 \\ \times \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad \$0.07 \\ \times \quad 15 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad \$92.68 \\ \times \quad 34 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad \$56.05 \\ \times \quad 47 \\ \hline \end{array}$$

Estimate first, then give the actual cost.

9. One fishing rod costs \$62.98. How much would 3 cost?
10. One spool of fishing line costs \$3.38. How much do 12 spools cost?
11. One fishing lure costs \$2.08. How much would 9 lures cost?
12. One box of fish hooks costs \$0.79. What is the cost of 6 boxes?

Extra Practice**Worksheet A14**

Pages 64-65

Find the product.

$$\begin{array}{r} 1. \quad 3.5 \\ \times \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 6.8 \\ \times \quad 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 29.7 \\ \times \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 5.4 \\ \times \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 7.2 \\ \times \quad 56 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 89.6 \\ \times \quad 79 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 625 \\ \times \quad 4.8 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 86.3 \\ \times \quad 576 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 86 \\ \times 0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 19.7 \\ \times \quad 10 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 348 \\ \times 0.1 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 25.9 \\ \times \quad 10 \\ \hline \end{array}$$

Estimate first, then solve.

13. How much would 0.9 m of fringe cost at \$3/m?
14. Mrs. Garcia is making curtains. She bought 18.2 m of fabric at \$5/m and 3.5 m of trim at \$2/m. How much did she spend in all?

Extra Practice**Worksheet A15**

Pages 66-67

Multiply.

$$\begin{array}{r} 1. \quad 0.67 \\ \times 35 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 28 \\ \times 0.58 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 0.73 \\ \times 96 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 74 \\ \times 0.87 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6.24 \\ \times 126 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 846 \\ \times 2.85 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 3.79 \\ \times 582 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 625 \\ \times 7.19 \\ \hline \end{array}$$

9. $3.64 \times 100 = \underline{\hspace{2cm}}$ 10. $198 \times 0.01 = \underline{\hspace{2cm}}$ 11. $0.01 \times 96 = \underline{\hspace{2cm}}$
 12. $8.45 \times 100 = \underline{\hspace{2cm}}$ 13. $37 \times 100 = \underline{\hspace{2cm}}$ 14. $0.01 \times 8 = \underline{\hspace{2cm}}$

Solve.

15. A farmer hauled bags of potatoes to market. He hauled eighteen 22.27 kg bags and twenty-five 11.36 kg bags. How many kilograms of potatoes did he haul in all?

Extra Practice**Worksheet PS3**

Pages 68-69

Mentally compute the answers to these problems.

- How old will a 37-year-old person be 15 years from now?
- How much is left from \$10, if you spend \$4 on lunch and lose \$2?
- If today is Friday, what day will it be 9 days from now?
- How much does each person get if 4 families of 3 equally share \$36?
- What is the perimeter of a rectangular field that is 20 m by 30 m?
- How many \$50 bills are needed to pay a \$300 debt?

Post-Test**Unit 3**

Find the product.

$$\begin{array}{r} 1. \quad 26 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 382 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 596 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 8697 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 75 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 89 \\ \times 67 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 37 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 925 \\ \times 89 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 245 \\ \times 783 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 658 \\ \times 249 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 605 \\ \times 987 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 340 \\ \times 687 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 743 \\ \times 600 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 293 \\ \times 870 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 236 \\ \times 804 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \quad 735 \\ \times 509 \\ \hline \end{array}$$

Calculate.

$$17. \quad 2^5 = \underline{\hspace{2cm}} \quad 18. \quad 9^3 = \underline{\hspace{2cm}} \quad 19. \quad 10^4 = \underline{\hspace{2cm}} \quad 20. \quad 1^5 = \underline{\hspace{2cm}}$$

$$21. \quad 3^3 = \underline{\hspace{2cm}} \quad 22. \quad 7^2 = \underline{\hspace{2cm}} \quad 23. \quad 5^3 = \underline{\hspace{2cm}} \quad 24. \quad 6^1 = \underline{\hspace{2cm}}$$

$$25. \quad 4 \times 10^2 = \underline{\hspace{2cm}} \quad 26. \quad 4 \times 10^5 = \underline{\hspace{2cm}}$$

Estimate the product.

$$27. \quad 406 \times 68 = \underline{\hspace{2cm}} \quad 28. \quad 32 \times 9.9 = \underline{\hspace{2cm}} \quad 29. \quad \$9.85 \times 22 = \underline{\hspace{2cm}}$$

Multiply.

$$\begin{array}{r} 30. \quad 4¢ \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 31. \quad \$0.03 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 32. \quad \$5.05 \\ \times 63 \\ \hline \end{array}$$

$$\begin{array}{r} 33. \quad \$46.98 \\ \times 87 \\ \hline \end{array}$$

$$\begin{array}{r} 34. \quad 8.9 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 35. \quad 75 \\ \times 4.6 \\ \hline \end{array}$$

$$\begin{array}{r} 36. \quad 38.7 \\ \times 905 \\ \hline \end{array}$$

$$\begin{array}{r} 37. \quad 898 \\ \times 41.6 \\ \hline \end{array}$$

$$\begin{array}{r} 38. \quad 2.49 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 39. \quad 92 \\ \times 0.57 \\ \hline \end{array}$$

$$\begin{array}{r} 40. \quad 8.04 \\ \times 694 \\ \hline \end{array}$$

$$\begin{array}{r} 41. \quad 572 \\ \times 6.03 \\ \hline \end{array}$$

Pretest**Unit 4**

Find the quotient.

- | | | |
|---|--|--|
| 1. $45 \div 7 = \underline{\hspace{2cm}}$ | 2. $51 \div 8 = \underline{\hspace{2cm}}$ | 3. $62 \div 9 = \underline{\hspace{2cm}}$ |
| 4. $23 \div 3 = \underline{\hspace{2cm}}$ | 5. $42 \div 2 = \underline{\hspace{2cm}}$ | 6. $67 \div 4 = \underline{\hspace{2cm}}$ |
| 7. $95 \div 6 = \underline{\hspace{2cm}}$ | 8. $89 \div 7 = \underline{\hspace{2cm}}$ | 9. $263 \div 7 = \underline{\hspace{2cm}}$ |
| 10. $495 \div 8 = \underline{\hspace{2cm}}$ | 11. $4637 \div 5 = \underline{\hspace{2cm}}$ | 12. $7651 \div 9 = \underline{\hspace{2cm}}$ |
| 13. $4 \overline{)1796}$ | 14. $8 \overline{)3752}$ | 15. $7 \overline{)62\,573}$ |
| 16. $50 \overline{)375}$ | 17. $90 \overline{)345}$ | 18. $80 \overline{)498}$ |
| 19. $13 \overline{)146}$ | 20. $78 \overline{)358}$ | 21. $41 \overline{)328}$ |
| 22. $22 \overline{)1232}$ | 23. $89 \overline{)3457}$ | 24. $34 \overline{)1598}$ |
| 25. $27 \overline{)6841}$ | 26. $25 \overline{)3875}$ | 27. $78 \overline{)11\,022}$ |
| 28. $31 \overline{)37\,510}$ | 29. $89 \overline{)89\,017}$ | 30. $75 \overline{)17\,700}$ |

Solve.

31. If the dividend is 4788 and the quotient is 84, what is the divisor?

32. If the divisor is 53 and the quotient is 1642, what is the dividend?

33. There were 224 guests at a wedding reception seated at 28 tables.
How many guests were seated at each table?

34. Mr. Wagner earned \$625.00 per week for 14 weeks. He earned \$700 for
the next 12 weeks. How much did he earn in all?

Extra Practice**Worksheet A16**

Pages 74-75

Find the quotient. Check your answer.

1. $9\overline{)89}$

2. $4\overline{)30}$

3. $2\overline{)19}$

4. $7\overline{)53}$

5. $8\overline{)59}$

6. $6\overline{)39}$

7. $3\overline{)26}$

8. $5\overline{)44}$

9. $9\overline{)70}$

10. $7\overline{)61}$

11. $4\overline{)39}$

12. $8\overline{)64}$

Solve.

13. If 49 tires are stacked in 7 equal piles, how many tires are in each pile?

14. Can 8 children share 35 brownies equally?

Extra Practice**Worksheet A17**

Pages 76-77

Find the quotient. Check your answer.

1. $2\overline{)37}$

2. $4\overline{)57}$

3. $6\overline{)95}$

4. $5\overline{)84}$

5. $9\overline{)98}$

6. $5\overline{)67}$

7. $4\overline{)68}$

8. $7\overline{)88}$

9. $3\overline{)73}$

10. $7\overline{)99}$

11. $4\overline{)76}$

12. $3\overline{)87}$

Solve.

13. How many equal packages of 4 will 96 bars of soap make?

14. Can \$51.00 be equally shared by 3 people?

Extra Practice**Worksheet A18**

Pages 78-79

Find the quotient. Check your answer.

1. $6 \overline{)517}$

2. $3 \overline{)296}$

3. $8 \overline{)432}$

4. $7 \overline{)627}$

5. $9 \overline{)873}$

6. $6 \overline{)524}$

7. $5 \overline{)372}$

8. $7 \overline{)401}$

9. $9 \overline{)600}$

10. $3 \overline{)117}$

11. $8 \overline{)750}$

12. $4 \overline{)391}$

Solve.

13. If 348 is the dividend and 3 is the divisor, what is the quotient?

14. If 48 is the quotient and 3 is the divisor, what is the dividend?

Extra Practice**Worksheet A19**

Pages 80-81

Find the quotient. Check your answer.

1. $3 \overline{)6150}$

2. $5 \overline{)5432}$

3. $6 \overline{)9001}$

4. $4 \overline{)8006}$

5. $4 \overline{)20\,228}$

6. $6 \overline{)54\,180}$

7. $8 \overline{)20\,001}$

8. $7 \overline{)35\,101}$

9. $8 \overline{)76\,072}$

10. $3 \overline{)11\,210}$

11. $7 \overline{)49\,007}$

12. $5 \overline{)24\,540}$

Solve.

13. Mr. Bentley worked on a special job for 9 days.

He received \$972.00 in salary.

How much money did he make each day?

Name _____

Extra Practice

Worksheet A20

Pages 82-83

Find the quotient. Check your answer.

1. $20 \overline{)340}$

2. $30 \overline{)624}$

3. $50 \overline{)647}$

4. $80 \overline{)351}$

5. $70 \overline{)2100}$

6. $90 \overline{)8652}$

7. $20 \overline{)4960}$

8. $60 \overline{)7953}$

9. $50 \overline{)2576}$

10. $80 \overline{)7725}$

11. $90 \overline{)1162}$

12. $30 \overline{)2490}$

Solve.

13. How many \$10 bills could you receive for a \$670 cheque?

14. How many \$20 bills could you receive for a \$9980 cheque?

Extra Practice

Worksheet A21

Pages 84-85

Find the quotient. Check your answer.

1. $40 \overline{)165}$

2. $92 \overline{)618}$

3. $39 \overline{)243}$

4. $68 \overline{)272}$

5. $43 \overline{)348}$

6. $18 \overline{)117}$

7. $72 \overline{)504}$

8. $84 \overline{)726}$

9. $13 \overline{)101}$

10. $26 \overline{)676}$

11. $23 \overline{)209}$

12. $57 \overline{)342}$

Solve.

13. For the product of 304, one factor is 38. What is the other factor?

14. If one factor is 675 and another is 25, what is their product?

Name _____

Extra Practice

Worksheet A22

Pages 86-87

Find the quotient. Check your answer.

1. $18 \overline{)367}$

2. $26 \overline{)985}$

3. $32 \overline{)448}$

4. $13 \overline{)883}$

5. $38 \overline{)2652}$

6. $45 \overline{)3785}$

7. $87 \overline{)5622}$

8. $99 \overline{)8301}$

9. $65 \overline{)4056}$

10. $68 \overline{)1836}$

11. $75 \overline{)2077}$

12. $37 \overline{)3145}$

Solve.

13. If 1904 is the dividend and 34 is the divisor, what is the quotient?

14. If 5695 is the dividend and 67 is the quotient, what is the divisor?

Extra Practice

Worksheet A23

Pages 88-89

Find the quotient. Check your answer.

1. $67 \overline{)7028}$

2. $35 \overline{)8126}$

3. $14 \overline{)4508}$

4. $23 \overline{)9384}$

5. $63 \overline{)50\,061}$

6. $45 \overline{)27\,312}$

7. $51 \overline{)10\,557}$

8. $55 \overline{)10\,988}$

9. $92 \overline{)23\,276}$

10. $88 \overline{)10\,765}$

11. $27 \overline{)20\,344}$

12. $69 \overline{)20\,907}$

Round and estimate.

13. Round the factors. Estimate the product.

592×42 _____

14. Round the divisor and dividend. Estimate the quotient.

$8835 \div 28$ _____

Extra Practice**Worksheet A24**

Pages 90-91

Find the quotient. Check your answer.

1. $32 \overline{)86\,240}$

2. $51 \overline{)64\,005}$

3. $78 \overline{)93\,444}$

4. $25 \overline{)63\,550}$

5. $19 \overline{)55\,005}$

6. $27 \overline{)83\,970}$

7. $39 \overline{)80\,184}$

8. $63 \overline{)65\,114}$

9. $21 \overline{)92\,589}$

10. $34 \overline{)40\,652}$

11. $95 \overline{)95\,190}$

12. $48 \overline{)59\,136}$

Solve.

13. What is the weekly salary of Ms. Peters who earns \$32 000 per year?

14. What is the yearly salary of Mr. Duvik who earns \$615 per week?

Extra Practice**Worksheet PS4**

Pages 92-93

Solve.

1. John received \$100.00 for his graduation. With that money he spent \$35.95 for skates, \$39.25 for a calculator, and \$16.50 for a pair of jeans. How much money did he have left?

2. Mrs. McMahon planted two tulip gardens. In her back yard she planted 3 rows with 15 tulips in each row. In her front yard she planted 7 rows with 18 tulips in each row. How many tulips did she plant in all?

3. Mr. Weaver sold his crop of beans for \$244.80. He got \$1.80 for 10 kg of beans. What was the mass of his whole crop?

4. If the quotient is 485 and the divisor is 39, what is the dividend?

5. If the divisor is 78 and the dividend is 49 842, what is the quotient?

Post-test**Unit 4**

Find the quotient.

- | | | |
|--------------------------------------|---------------------------------------|---------------------------------------|
| 1. $39 \div 6 = \underline{\quad}$ | 2. $57 \div 9 = \underline{\quad}$ | 3. $53 \div 7 = \underline{\quad}$ |
| 4. $24 \div 5 = \underline{\quad}$ | 5. $55 \div 3 = \underline{\quad}$ | 6. $18 \div 2 = \underline{\quad}$ |
| 7. $165 \div 7 = \underline{\quad}$ | 8. $602 \div 8 = \underline{\quad}$ | 9. $137 \div 2 = \underline{\quad}$ |
| 10. $624 \div 9 = \underline{\quad}$ | 11. $7319 \div 6 = \underline{\quad}$ | 12. $1324 \div 4 = \underline{\quad}$ |
| 13. $3 \overline{)1842}$ | 14. $7 \overline{)6475}$ | 15. $5 \overline{)31\,520}$ |
| 16. $60 \overline{)272}$ | 17. $80 \overline{)159}$ | 18. $30 \overline{)247}$ |
| 19. $32 \overline{)217}$ | 20. $69 \overline{)345}$ | 21. $18 \overline{)117}$ |
| 22. $47 \overline{)1081}$ | 23. $91 \overline{)6623}$ | 24. $25 \overline{)2450}$ |
| 25. $33 \overline{)4516}$ | 26. $47 \overline{)6931}$ | 27. $82 \overline{)10\,250}$ |
| 28. $12 \overline{)12\,134}$ | 29. $25 \overline{)46\,175}$ | 30. $84 \overline{)95\,004}$ |

Solve.

31. If the divisor is 89 and the quotient is 6572, what is the dividend?

32. If the quotient is 42 and the dividend is 3990, what is the divisor?

33. Mr. Townsend earns \$44 600 per year. What does he earn per month?

34. Mr. Pirelli bought 900 m of fencing. With this he plans to enclose his rectangular yard that measures 22 m wide and 25 m long. He also plans to enclose his friend's rectangular yard that measures 19 m wide and 18 m long. Does he have enough for both yards?

Pretest

Unit 5

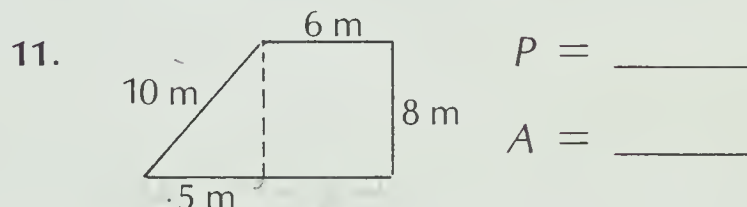
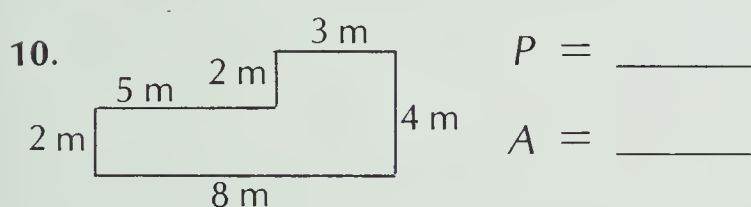
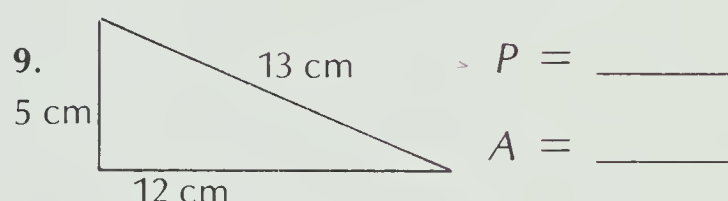
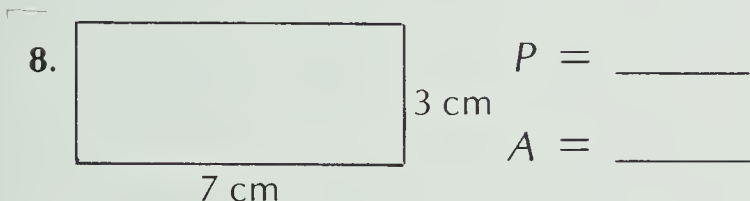
Write the most appropriate unit of length.

1. distance across Canada _____
2. amount of rainfall _____
3. distance above sea level _____
4. length of a nail _____

Copy and complete.

5. $10\,000\text{ m}^2 = \text{_____ ha}$
6. The area of a book cover is about 430 _____
7. The area of Quebec is about 1 500 000 _____.

What is the perimeter and the area of each figure?



Calculate the circumference of a circle with each diameter.

12. 2 cm, $C = \text{_____}$
13. 12 km, $C = \text{_____}$
14. 20 m, $C = \text{_____}$
15. 15 mm, $C = \text{_____}$

Calculate the area of a circle with each radius.

16. 3 cm, $A = \text{_____}$
17. 4 km, $A = \text{_____}$
18. 6 cm, $A = \text{_____}$
19. 50 m, $A = \text{_____}$

Calculate the volume of the box.

20. $L = 5\text{ cm}, W = 3\text{ cm}, H = 6\text{ cm}, V = \text{_____}$.
21. $L = 4\text{ m}, W = 2\text{ m}, H = 3\text{ m}, V = \text{_____}$.

Copy and complete.

22. $1\text{ kg} = \text{_____ g}$
23. $6\text{ kg} = \text{_____ g}$
24. $5\text{ t} = \text{_____ kg}$
25. $2\text{ L} = \text{_____ mL}$
26. $6000\text{ mL} = \text{_____ L}$
27. $3\text{ kL} = \text{_____ L}$
28. The mass of 2 cm^3 of water is _____ g.

How long?

29. from 07:30 to 10:45 _____
30. from 03:40 to 06:05 _____

Extra Practice

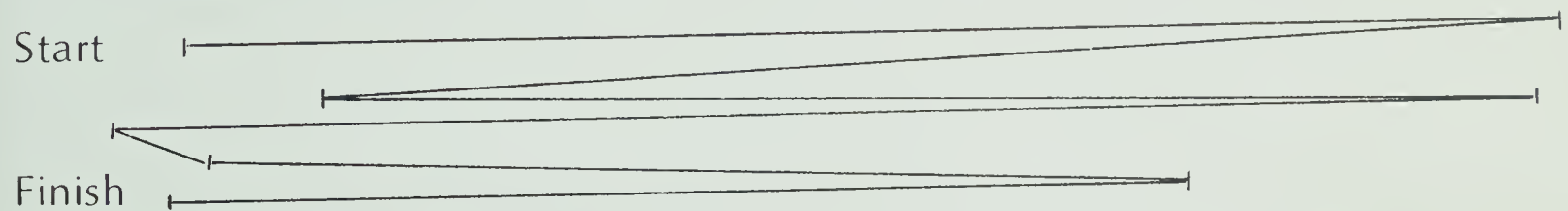
Worksheet M4

Pages 98-99

Estimate and measure.

	estimate	measure
1. length of an unsharpened pencil		
2. thickness of your math book cover		
3. height of your classroom door		
4. width of the chalkboard		
5. thickness of a metre stick		

How long is this path? ____ cm ____ mm ____ m



Extra Practice

Worksheet M5

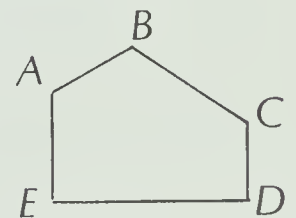
Pages 100-101

Solve.

1. What is the perimeter of the figure on the right, if the sides have these lengths?

a. $AB = 4 \text{ cm}$, $BC = 6 \text{ cm}$, $CD = 4 \text{ cm}$, $DE = 9 \text{ cm}$,
 $EA = 5 \text{ cm}$ Perimeter = _____

b. $AB = 4.2 \text{ m}$, $BC = 6.3 \text{ m}$, $CD = 4.0 \text{ m}$, $DE = 9.7 \text{ m}$,
 $EA = 9.3 \text{ m}$ Perimeter = _____



2. What is the perimeter of a figure, if its sides have these lengths?

a. 46 cm, 1.6 m, 98.2 cm _____

b. 8 km, 3 km, 1467 m, 2.7 km _____

c. 30 mm, 2.5 cm, 80 mm, 6.4 cm _____

3. The lot around an oil pump is square and is 25 m on each side. How many metres of fence are needed to fence it in?

Extra Practice**Worksheet M6**

Pages 102-103

Write cm^2 , m^2 , ha, or km^2 .

1. The area of the top of a school desk is about 2000 _____.
2. The area of a potato field is about 20 _____.
3. The area of the first floor of a house is about 75 _____.
4. The area of Lake Winnipeg is about 24 300 _____.
5. The area of a king-size bed is about 4 _____.
6. The area of a door is about 2 _____.
7. The area of a T.V. screen is about 1500 _____.
8. The area of a small town is about 80 _____.
9. The area of a swimming pool is about 1000 _____.
10. The area of the front page of a newspaper is about 2200 _____.

Extra Practice**Worksheet M7**

Pages 104-105

What is the area of a rectangle with the following measurements?

- | | |
|--|--|
| 1. $L = 8 \text{ cm}, W = 3 \text{ cm}, A =$ _____ | 2. $L = 80 \text{ m}, W = 30 \text{ m}, A =$ _____ |
| 3. $L = 10 \text{ m}, W = 10 \text{ m}, A =$ _____ | 4. $L = 15 \text{ mm}, W = 12 \text{ mm}, A =$ _____ |
| 5. $L = 8 \text{ km}, W = 4 \text{ km}, A =$ _____ | 6. $L = 200 \text{ m}, W = 182 \text{ m}, A =$ _____ |

What is the area of a triangle with the following measurements?

- | | |
|--|--|
| 7. $B = 5 \text{ cm}, H = 4 \text{ cm}, A =$ _____ | 8. $B = 9 \text{ m}, H = 10 \text{ m}, A =$ _____ |
| 9. $B = 8 \text{ cm}, H = 20 \text{ cm}, A =$ _____ | 10. $B = 15 \text{ mm}, H = 8 \text{ mm}, A =$ _____ |
| 11. $B = 5 \text{ km}, H = 12 \text{ km}, A =$ _____ | 12. $B = 6 \text{ m}, H = 25 \text{ m}, A =$ _____ |

Solve.

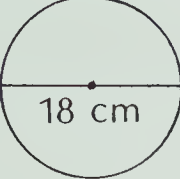
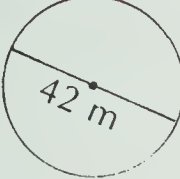

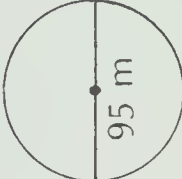
13. What is the area of a rectangle which measures 10 cm by 12 cm?
14. What is the area of a triangle with a base of 50 cm and a height of 60 cm?

Extra Practice

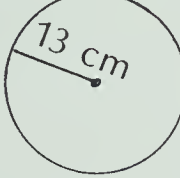
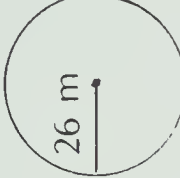


Worksheet M8

Pages 106-107

Calculate the circumference of each circle.

1.  $C = \underline{\hspace{2cm}}$
2.  $C = \underline{\hspace{2cm}}$
3.  $C = \underline{\hspace{2cm}}$
4.  $C = \underline{\hspace{2cm}}$

Calculate the area of each circle.

5.  $A = \underline{\hspace{2cm}}$
6.  $A = \underline{\hspace{2cm}}$
7.  $A = \underline{\hspace{2cm}}$
8.  $A = \underline{\hspace{2cm}}$

Solve.

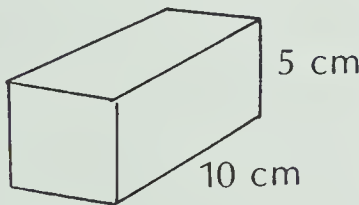
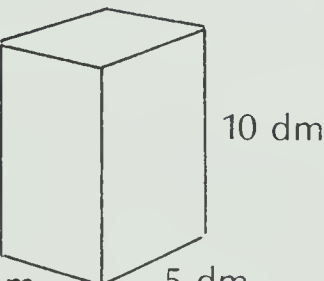
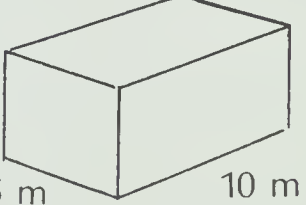
9. Mr. Hedges wants to put a decorative fence around a circular flower garden. The diameter of the garden is 4 m. How much fencing does he need?

Extra Practice

Worksheet M9

Pages 108-109

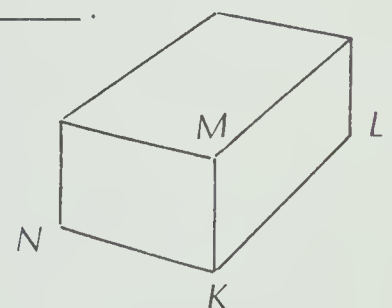
What is the volume?

1.  $V = \underline{\hspace{2cm}}$
2.  $V = \underline{\hspace{2cm}}$
3.  $V = \underline{\hspace{2cm}}$

4. Length = 20 cm, Width = 10 cm, Height = 5 cm, $V = \underline{\hspace{2cm}}$.
5. Length = 30 m, Width = 25 m, Height = 7 m, $V = \underline{\hspace{2cm}}$.
6. $KL = 12$ cm, $NK = 14$ cm, $MK = 15$ cm, $V = \underline{\hspace{2cm}}$.
7. $KL = 4$ dm, $NK = 7$ dm, $MK = 9$ dm, $V = \underline{\hspace{2cm}}$.

Solve.

8. What is the volume of an oil furnace that is 1 m wide, 2 m long, and 1 m high?



Extra Practice**Worksheet M10**

Pages 110-111

Complete. Use g, kg, or t.

1. An eraser is about 25 ____.
2. A cat is about 2 ____.
3. A sailboat is about 4.5 ____.
4. A rhinoceros is about 2.5 ____.
5. Five football players are about 0.5 ____.
6. A newborn baby is about 3.5 ____.

Complete.

7. $5000\text{ g} = \text{____ kg}$
8. $3800\text{ kg} = \text{____ t}$
9. $5.6\text{ kg} = \text{____ g}$
10. $5.5\text{ t} = \text{____ kg}$
11. $16\text{ kg} + 250\text{ g} = \text{____ g}$
12. $2\text{ t} + 955\text{ kg} = \text{____ t}$
13. $1\text{ t} + 875\text{ g} = \text{____ t}$
14. $3\text{ kg} + 239\text{ g} = \text{____ kg}$
15. $1\text{ t} - 685\text{ kg} = \text{____ kg}$
16. $1\text{ kg} - 48\text{ g} = \text{____ g}$
17. $5\text{ t} - 500\text{ g} = \text{____ t}$
18. $9\text{ kg} - 100\text{ g} = \text{____ kg}$

Extra Practice**Worksheet M11**

Pages 112-113

Complete. Use mL, L, or kL.

1. 1 cm^3 holds about 1 ____ of water.
2. 1 dm^3 holds about 1 ____ of water.
3. 1 m^3 holds about 1 ____ of water.
4. A bathtub holds about 1 ____ of water.

Complete.

5. $8000\text{ mL} = \text{____ L}$
6. $3100\text{ L} = \text{____ kL}$
7. $7.5\text{ kL} = \text{____ L}$
8. $4.9\text{ L} = \text{____ mL}$
9. $2\text{ mL} = \text{____ L}$
10. $5\text{ L} = \text{____ kL}$
11. $9\text{ L} + 600\text{ mL} = \text{____ mL}$
12. $1\text{ kL} + 800\text{ L} = \text{____ kL}$

Solve.

13. Alice made a drink with 300 mL of ginger ale and 250 mL of orange juice. How much drink did she have?

Extra Practice**Worksheet M12**

Pages 114-115

Complete.

1. A 1000 cm^3 container holds 1 _____ of water.
2. A 1000 cm^3 container holds 1000 _____ of water.
3. 1 mL of water will fill a _____ cm^3 container.
4. 1 L of water will fill a _____ cm^3 container.
5. 1 L of water has a mass of 1 _____.
6. 1 L of water has a mass of 1000 _____.
7. 10 mL of water has a mass of 10 _____.
8. 1000 mL of water has a mass of 1000 _____.
9. 1000 mL of water has a mass of 1 _____.

Solve.

10. A rectangular container measures $10 \text{ cm} \times 10 \text{ cm} \times 5 \text{ cm}$.
What is the volume? How many millilitres will it hold?

Extra Practice**Worksheet M13**

Pages 116-117

Solve.

1. Kim read a book for 2 h 15 min. She stopped reading at 17:00. What time did she start reading? _____
2. Sam went to bed at 21:30 and got up at 07:00. How long did he sleep? _____
3. Gary wants to practise the piano for 45 min. He started practising at 14:35. What time will he finish? _____
4. Lisa took a bus from Winnipeg at 09:30 and arrived in Regina 8 h 30 min later. What time did she arrive in Regina? _____
5. Larry took a bus from Winnipeg to Thunder Bay. The trip took 9 h 45 min. If he left at 13:05, what time did he arrive in Thunder Bay? (Remember the difference in time zones.) _____

Post-test**Unit 5**

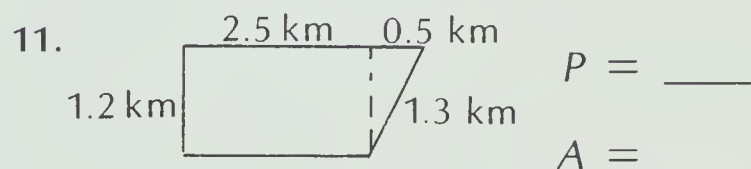
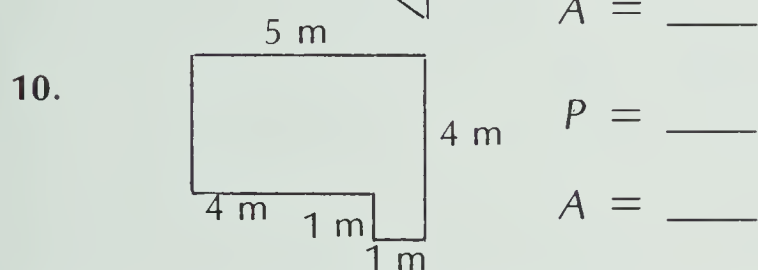
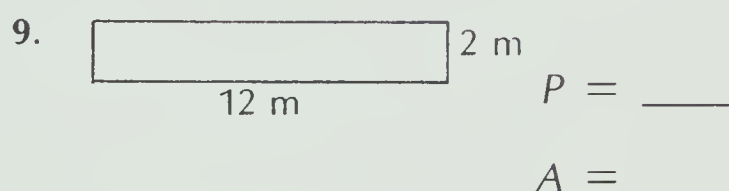
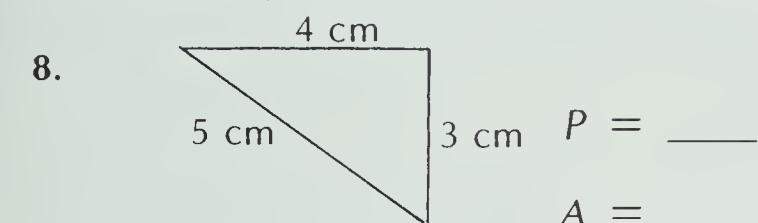
Write the most appropriate unit of length.

1. length of the St. Lawrence River _____
2. thickness of a nail _____
3. height of a house _____
4. diameter of a plate _____

Copy and complete.

5. $2 \text{ ha} = \underline{\hspace{2cm}} \text{ m}^2$
6. The area of a student desk is about 2400 _____.
7. The area of Lake Erie is about 25 700 _____.

What is the perimeter and the area of each figure?



Calculate the circumference of a circle with each diameter.

12. 4 cm, $C = \underline{\hspace{2cm}}$
13. 13 mm, $C = \underline{\hspace{2cm}}$
14. 30 m, $C = \underline{\hspace{2cm}}$
15. 50 cm, $C = \underline{\hspace{2cm}}$

Calculate the area of a circle with each radius.

16. 4 cm, $A = \underline{\hspace{2cm}}$
17. 1 km, $A = \underline{\hspace{2cm}}$
18. 6 mm, $A = \underline{\hspace{2cm}}$
19. 10 cm, $A = \underline{\hspace{2cm}}$

Calculate the volume of the box.

20. $L = 4 \text{ cm}, W = 2 \text{ cm}, H = 4 \text{ cm}, V = \underline{\hspace{2cm}}$.
21. $L = 20 \text{ m}, W = 15 \text{ m}, H = 10 \text{ m}, V = \underline{\hspace{2cm}}$.

Copy and complete.

22. $1000 \text{ g} = \underline{\hspace{2cm}} \text{ kg}$
23. $3.5 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$
24. $6 \text{ t} = \underline{\hspace{2cm}} \text{ kg}$
25. $4 \text{ L} = \underline{\hspace{2cm}} \text{ mL}$
26. $500 \text{ mL} = \underline{\hspace{2cm}} \text{ L}$
27. $2.5 \text{ kL} = \underline{\hspace{2cm}} \text{ L}$
28. The capacity of a can which holds 2 L of water is _____ dm^3 .

How long?

29. from 02:35 to 10:10 _____
30. from 21:15 to 01:20 _____

Pretest

Unit 6

List multiples for each. Find the LCM.

1. 3 and 4
2. 6 and 9
3. 8 and 12

Is 324 divisible by:

4. 5? _____
5. 2? _____
6. 3? _____
7. 4? _____
8. 6? _____

Is 1108 divisible by:

9. 2? _____
10. 3? _____
11. 9? _____
12. 5? _____
13. 6? _____

List the factors of each. Find the GCF.

14. 12 and 16
15. 15 and 25
16. 36 and 48

Write **prime** or **composite**.

17. 9 _____
18. 11 _____
19. 17 _____
20. 21 _____
21. 67 _____

Make a factor tree to express each number as a product of prime factors.
Write the product using exponents.

22. $\begin{array}{c} 24 \\ / \quad \backslash \end{array}$
23. $\begin{array}{c} 30 \\ / \quad \backslash \end{array}$
24. $\begin{array}{c} 81 \\ / \quad \backslash \end{array}$
25. $\begin{array}{c} 56 \\ / \quad \backslash \end{array}$
26. $\begin{array}{c} 120 \\ / \quad \backslash \end{array}$

Simplify each expression.

27. $3 + 32 \div 4$
28. $18 - 2 \times 3 + 1$
29. $(11 - 7) \times 6$
30. $(38 - 2) \div (8 + 4)$

Solve for N . Check.

31. $N - 88 = 29$
32. $7 \times N = 392$
33. $N \div 18 = 8$

Complete.

34.

In	Out
N	$50 - N$
6	
13	
47	

35.

In	Out
N	$8 \times (N + 3)$
3	
5	
12	

36.

In	Out
N	$11 + N \div 2$
24	
38	
66	

Extra Practice

Worksheet A25

Pages 122-123

Write the next six multiples.

1. 7, 14, 21, _____, _____, _____, _____, _____
2. 11, 22, 33, _____, _____, _____, _____, _____
3. 13, 26, 39, _____, _____, _____, _____, _____
4. 15, 30, 45, _____, _____, _____, _____, _____
5. Write the multiples of 6 between 41 and 69. _____, _____, _____, _____, _____
6. Write the next five multiples of 4 after 36. _____, _____, _____, _____, _____

List multiplies of each. Find the LCM.

7. 8 and 12
8. 12 and 15
9. 6, 4, and 10
10. 10, 12, and 20

Extra Practice

Worksheet A26

Pages 124-125

Complete the chart. Write the quotients which have no remainders.

Number Divisible	by 2	by 3	by 4	by 5	by 6	by 9	by 10
1. 40							
2. 77							
3. 96							
4. 105							
5. 350							
6. 633							
7. 812							
8. 2430							
9. 8010							
10. 3965							

Extra Practice**Worksheet A27**

Pages 126-127

Write all multiplications for each product. List the factors.

- | | |
|-------|--------|
| 1. 44 | 2. 96 |
| 3. 90 | 4. 108 |

List the factors. Find the GCF.

- | | |
|---------------|--------------|
| 5. 80 and 100 | 6. 21 and 35 |
| 7. 27 and 43 | 8. 39 and 81 |

Solve.

9. Mr. Trant's classroom has only 18 dictionaries and 15 poetry books. He divided his class into groups and gave each group the same number of dictionaries. Then he gave the groups equal numbers of poetry books. How many groups were there?

Extra Practice**Worksheet A28**

Pages 128-129

Is the number prime or composite?

- | | | |
|---------------|---------------|---------------|
| 1. 13 _____ | 2. 29 _____ | 3. 39 _____ |
| 4. 45 _____ | 5. 47 _____ | 6. 81 _____ |
| 7. 89 _____ | 8. 93 _____ | 9. 107 _____ |
| 10. 121 _____ | 11. 117 _____ | 12. 327 _____ |

13. Write the composite numbers less than 24. _____
14. Write the prime numbers between 15 and 25. _____
15. Write the prime numbers between 35 and 45. _____

Solve.

16. I am a composite number divisible by 2, 3, 4, and 6. The number seven more than me is a composite number. The number seven less than me is a prime number. Who am I?

Extra Practice

Worksheet A29
Pages 130-131

Use a factor tree to write the number as a product of prime factors.
Then write the product using exponents.

1. 44	2. 80	3. 105	4. 225
5. 26	6. 87	7. 480	8. 963

Extra Practice

Worksheet A30
Pages 132-133

Simplify the expression.

1. $100 - 36 \div 6$ = =	2. $45 + 2 \times 3$ = =	3. $9 \times 4 \div 6$ = =	4. $42 + 8 - 5$ = =
5. $65 + 40 \div 8 - 10$ = = =	6. $7 \times 4 - 3 \times 5$ = = =	7. $28 - 4 + 5 \times 7$ = = =	8. $280 - 100 \times 2 + 3$ = = =

Write the expression and then simplify it.

9. thirteen minus four times two
10. thirty divided by six minus one

Extra Practice

Worksheet A31

Pages 134-135

Simplify the expression.

1. $200 \div (15 + 5)$ = =	2. $(30 - 15) \div (27 - 24)$ = =	3. $125 \div (21 + 4)$ = =	4. $(28 - 20) \times 80$ = =
5. $2 \times 12 \div (8 + 0)$ = = =	6. $383 - (11 + 9) + 7$ = = =	7. $22 \times 2 \div 11$ = =	8. $3 \times 2 \times (57 - 57)$ = = =

Write the expression and then simplify it.

9. the sum of 3 and 4 divided by the sum of 2 and 5
10. three times the difference between 10 and 13

Extra Practice

Worksheet A32

Pages 136-137

Complete.

1.

In	Out
N	$18 - N$
2	
12	
15	

2.

In	Out
N	$N \times 6$
3	
7	
21	

3.

In	Out
N	$N \div 3$
18	
36	
81	

4.

In	Out
N	$73 + N$
73	
27	
101	

5.

In	Out
N	$16 - (N - 1)$
16	
1	
15	

6.

In	Out
N	$60 \div (5 + N)$
5	
10	
25	

Extra Practice

Worksheet A33

Pages 138-139

Solve the equation. Check.

1. $N - 20 = 6$	2. $N \div 4 = 15$	3. $N + 23 = 34$	4. $N \times 6 = 72$
5. $N \div 3 = 27$	6. $N - 40 = 30$	7. $N \times 62 = 186$	8. $N + 72 = 185$

Write the equation. Solve.

9. a number multiplied by 3 equals 57
10. a number minus 17 equals 84

Extra Practice

Worksheet PS5

Pages 140-141

Write an equation for each and solve.

1. Ronald’s height plus 10 cm is Gary’s height. If Gary is 128 cm tall, how tall is Ronald?
2. Edna earns \$1.50 an hour for babysitting. She earned \$7.50 on Friday evening. How many hours did she babysit?
3. Thirty more than a number is equal to 40. What is the number?
4. When 75 is subtracted from a number, the result is 37. What is the number?
5. Eight times what number is 160?
6. What number divided by 18 gives 5?
7. Twelve less than a number is 13. What is the number?

Post-test

Unit 6

List the multiples for each. Find the LCM.

1. 6 and 10
2. 2 and 3
3. 15 and 20

Is 140 divisible by:

4. 2? _____
5. 3? _____
6. 5? _____
7. 6? _____
8. 10? _____

Is 2142 divisible by:

9. 2? _____
10. 3? _____
11. 4? _____
12. 5? _____
13. 9? _____

List the factors of each. Find the GCF.

14. 16 and 20
15. 20 and 75
16. 16 and 32

Write **prime** or **composite**.

17. 10 _____
18. 19 _____
19. 22 _____
20. 43 _____
21. 77 _____

Make a factor tree to express each number as a product of prime factors.
Write the product using exponents.

22. $\begin{array}{c} 20 \\ \diagup \quad \diagdown \end{array}$
23. $\begin{array}{c} 48 \\ \diagup \quad \diagdown \end{array}$
24. $\begin{array}{c} 90 \\ \diagup \quad \diagdown \end{array}$
25. $\begin{array}{c} 175 \\ \diagup \quad \diagdown \end{array}$
26. $\begin{array}{c} 360 \\ \diagup \quad \diagdown \end{array}$

Simplify each expression.

27. $50 - 40 \div 8$
28. $21 - 8 \times 2 + 4$
29. $(6 + 7) \times 3$
30. $(39 - 19) \times (11 + 9)$

Solve for N . Check.

31. $N + 112 = 217$
32. $N \div 16 = 35$
33. $42 \times N = 630$

Complete.

34.

In	Out
N	$32 - N$
2	
10	
12	

35.

In	Out
N	$5 \times (N + 2)$
3	
8	
10	

36.

In	Out
N	$9 + N \div 3$
3	
12	
27	

Pretest**Unit 7**

What fraction of the set is shaded?



Write the missing numerator or denominator.

4. $\frac{1}{4} = \frac{4}{\quad}$

5. $\frac{2}{3} = \frac{\quad}{15}$

6. $\frac{5}{6} = \frac{\quad}{18}$

7. $\frac{2}{9} = \frac{6}{\quad}$

Write in simplest terms.

8. $\frac{4}{10}$

9. $\frac{3}{12}$

10. $\frac{15}{18}$

11. $\frac{20}{40}$

12. $\frac{21}{49}$

Compare using $<$ or $>$.

13. $\frac{1}{3} \bigcirc \frac{4}{9}$

14. $\frac{3}{7} \bigcirc \frac{6}{21}$

15. $\frac{7}{8} \bigcirc \frac{43}{48}$

16. $\frac{11}{24} \bigcirc \frac{5}{12}$

Change the mixed numeral to a fraction.

17. $1\frac{1}{3}$

18. $3\frac{2}{5}$

19. $5\frac{3}{4}$

20. $4\frac{1}{6}$

21. $2\frac{3}{8}$

Change the fraction to a mixed numeral.

22. $\frac{5}{2}$

23. $\frac{10}{8}$

24. $\frac{13}{4}$

25. $\frac{25}{5}$

26. $\frac{38}{9}$

Write as a decimal.

27. $\frac{9}{10}$

28. $\frac{31}{100}$

29. $\frac{7}{25}$

30. $\frac{29}{50}$

31. $\frac{5}{8}$

Multiply.

32. $\frac{1}{5} \times 20$

33. $\frac{1}{3} \times 33$

34. $\frac{1}{4} \times 28$

35. $\frac{1}{8} \times 40$

36. $\frac{2}{3} \times 9$

37. $\frac{2}{5} \times 30$

38. $\frac{7}{8} \times 40$

39. $\frac{4}{9} \times 18$

Solve.

40. Alice has read 42 of the fiction books and 17 of the biographies in her classroom. If there are 75 fiction books, what fraction of them has she read?

Extra Practice

Worksheet N11

Pages 146-147

Write a fraction for each.



9. six out of fifteen boys

10. three errors in ten problems

11. two months of a year

12. eight hours in a day

Make a drawing for each fraction.

13. $\frac{1}{9}$

14. $\frac{6}{7}$

15. $\frac{10}{10}$

16. $\frac{0}{8}$

Extra Practice

Worksheet A34

Pages 148-149

Complete.

1. $\frac{1}{5} = \frac{\quad}{15}$

2. $\frac{7}{8} = \frac{49}{\quad}$

3. $\frac{3}{4} = \frac{\quad}{16}$

4. $\frac{2}{7} = \frac{\quad}{14}$

5. $\frac{7}{10} = \frac{\quad}{70}$

6. $\frac{5}{6} = \frac{\quad}{42}$

7. $\frac{3}{11} = \frac{\quad}{55}$

8. $\frac{7}{12} = \frac{\quad}{60}$

9. $\frac{4}{15} = \frac{12}{\quad}$

10. $\frac{3}{20} = \frac{\quad}{100}$

11. $\frac{5}{9} = \frac{40}{\quad}$

12. $\frac{9}{12} = \frac{72}{\quad}$

13. $\frac{7}{25} = \frac{21}{\quad}$

14. $\frac{11}{50} = \frac{44}{\quad}$

15. $\frac{3}{40} = \frac{\quad}{160}$

16. $\frac{9}{100} = \frac{36}{\quad}$

17. $\frac{2}{3} = \frac{\quad}{6} = \frac{\quad}{9} = \frac{8}{\quad} = \frac{\quad}{15} = \frac{12}{\quad} = \frac{14}{\quad} = \frac{\quad}{24} = \frac{18}{\quad} = \frac{\quad}{30} = \frac{\quad}{33} = \frac{24}{\quad}$

Solve.

18. Lou bought a dozen oranges but $\frac{1}{6}$ of them were spoiled. How many oranges were spoiled?

Extra Practice

Worksheet A35

Pages 150-151

Find the GCF of each pair of numbers.

1. 24 and 30
2. 36 and 48
3. 50 and 75

Write in simplest terms.

4. $\frac{10}{12} =$ _____

5. $\frac{10}{15} =$ _____

6. $\frac{40}{60} =$ _____

7. $\frac{15}{45} =$ _____
8. $\frac{18}{24} =$ _____

9. $\frac{30}{36} =$ _____

10. $\frac{27}{45} =$ _____

11. $\frac{48}{60} =$ _____
12. $\frac{90}{120} =$ _____

13. $\frac{40}{100} =$ _____

14. $\frac{66}{99} =$ _____

15. $\frac{40}{80} =$ _____

Which fraction cannot be written in simpler terms?

16. $\frac{6}{18}, \frac{15}{18}, \frac{17}{18}$
17. $\frac{14}{24}, \frac{13}{24}, \frac{21}{24}$

Extra Practice

Worksheet N12

Pages 152-153

Compare the fractions. Write $<$, $>$, or $=$.

1. $\frac{1}{5} \bigcirc \frac{1}{10}$

2. $\frac{3}{7} \bigcirc \frac{11}{28}$

3. $\frac{2}{5} \bigcirc \frac{6}{15}$

4. $\frac{2}{14} \bigcirc \frac{3}{7}$
5. $\frac{3}{10} \bigcirc \frac{31}{100}$

6. $\frac{5}{8} \bigcirc \frac{29}{48}$

7. $\frac{25}{36} \bigcirc \frac{8}{12}$

8. $\frac{63}{81} \bigcirc \frac{7}{9}$
9. $\frac{5}{24} \bigcirc \frac{1}{6}$

10. $\frac{20}{32} \bigcirc \frac{3}{4}$

11. $\frac{7}{10} \bigcirc \frac{42}{60}$

12. $\frac{9}{8} \bigcirc \frac{27}{24}$

Write equivalent fractions with the given denominator.

13. denominator 36

$\frac{1}{4}, \frac{2}{9}, \frac{1}{6}$ _____
14. denominator 50

$\frac{4}{5}, \frac{3}{10}, \frac{1}{2}$ _____

Write the fractions in order, from least to greatest.

15. $\frac{1}{5}, \frac{3}{20}, \frac{3}{4}, \frac{7}{10}, \frac{1}{2}$
16. $\frac{5}{24}, \frac{1}{6}, \frac{1}{2}, \frac{5}{12}, \frac{3}{4}, \frac{5}{8}$

Extra Practice

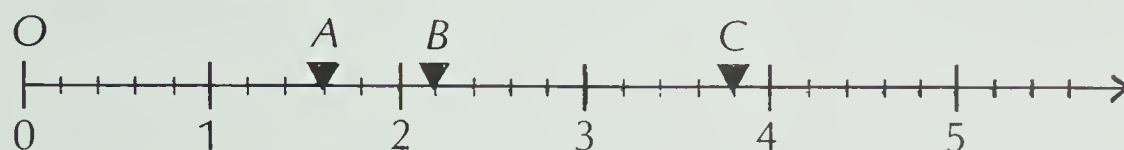
Worksheet N13

Pages 154-155

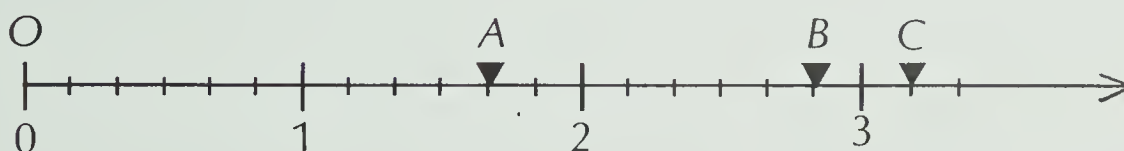
Change the mixed numeral to a fraction.

1. $3\frac{1}{5} = \underline{\hspace{2cm}}$
2. $4\frac{1}{4} = \underline{\hspace{2cm}}$
3. $2\frac{2}{7} = \underline{\hspace{2cm}}$
4. $6\frac{1}{8} = \underline{\hspace{2cm}}$
5. $7\frac{1}{2} = \underline{\hspace{2cm}}$
6. $3\frac{5}{8} = \underline{\hspace{2cm}}$
7. $6\frac{9}{10} = \underline{\hspace{2cm}}$
8. $4\frac{2}{5} = \underline{\hspace{2cm}}$
9. $5\frac{3}{7} = \underline{\hspace{2cm}}$
10. $1\frac{1}{3} = \underline{\hspace{2cm}}$
11. $9\frac{5}{9} = \underline{\hspace{2cm}}$
12. $4\frac{3}{10} = \underline{\hspace{2cm}}$

Write mixed numerals for the lengths OA , OB , and OC .



13. $OA = \underline{\hspace{2cm}}$ $OB = \underline{\hspace{2cm}}$ $OC = \underline{\hspace{2cm}}$



14. $OA = \underline{\hspace{2cm}}$ $OB = \underline{\hspace{2cm}}$ $OC = \underline{\hspace{2cm}}$

Extra Practice

Worksheet N14

Pages 156-157

Use division to change the fraction to a mixed numeral.

1. $\frac{17}{5} = \underline{\hspace{2cm}}$
2. $\frac{10}{7} = \underline{\hspace{2cm}}$
3. $\frac{12}{8} = \underline{\hspace{2cm}}$
4. $\frac{21}{5} = \underline{\hspace{2cm}}$
5. $\frac{19}{3} = \underline{\hspace{2cm}}$
6. $\frac{55}{6} = \underline{\hspace{2cm}}$
7. $\frac{90}{45} = \underline{\hspace{2cm}}$
8. $\frac{10}{3} = \underline{\hspace{2cm}}$
9. $\frac{33}{5} = \underline{\hspace{2cm}}$
10. $\frac{20}{6} = \underline{\hspace{2cm}}$
11. $\frac{17}{8} = \underline{\hspace{2cm}}$
12. $\frac{110}{11} = \underline{\hspace{2cm}}$

What mixed numeral corresponds to A? B? C?



13. $A = \underline{\hspace{2cm}}$ $B = \underline{\hspace{2cm}}$ $C = \underline{\hspace{2cm}}$

Extra Practice

Worksheet A36

Pages 158-159

Write as a fraction with a denominator of 10 or 100.

Then write as a decimal.

1. $\frac{3}{4}$ _____ 2. $\frac{7}{20}$ _____ 3. $\frac{6}{25}$ _____ 4. $\frac{1}{2}$ _____

5. $\frac{9}{5}$ _____ 6. $\frac{46}{50}$ _____ 7. $\frac{17}{4}$ _____ 8. $\frac{19}{20}$ _____

Use division to change the fraction to a decimal.

9. $\frac{7}{4}$ _____ 10. $\frac{21}{3}$ _____ 11. $\frac{13}{20}$ _____ 12. $\frac{26}{80}$ _____

13. $\frac{14}{25}$ _____ 14. $\frac{11}{16}$ _____ 15. $\frac{15}{8}$ _____ 16. $\frac{42}{12}$ _____

Write as a fraction.

17. 0.7 _____ 18. 0.19 _____ 19. 0.421 _____ 20. 0.7253 _____

21. 0.08 _____ 22. 0.045 _____ 23. 0.002 _____ 24. 0.0016 _____

Extra Practice

Worksheet A37

Pages 160-161

Multiply.

1. $\frac{1}{5}$ of 30 2. $\frac{1}{4}$ of 28 3. $\frac{1}{10}$ of 100 4. $\frac{1}{6}$ of 42

5. $\frac{1}{3} \times 30$ 6. $\frac{1}{2} \times 50$ 7. $\frac{1}{7} \times 49$ 8. $\frac{1}{8} \times 72$

9. $\frac{1}{9} \times 36$ 10. $\frac{1}{12} \times 48$ 11. $\frac{1}{20} \times 40$ 12. $\frac{1}{2} \times 40$

13. $\frac{1}{5} \times 60$ 14. $\frac{1}{3} \times 60$ 15. $\frac{1}{10} \times 80$ 16. $\frac{1}{4} \times 44$

Solve.

17. Of the 36 students in the band, $\frac{1}{3}$ are boys. How many boys are in the band?

18. Six of the 36 band members play drums. What fraction play drums?

Extra Practice**Worksheet A38**

Pages 162-163

Multiply.

- | | | | |
|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 1. $\frac{4}{5} \times 25$ | 2. $\frac{2}{9} \times 27$ | 3. $\frac{3}{7} \times 21$ | 4. $\frac{1}{6} \times 36$ |
| 5. $\frac{7}{10} \times 20$ | 6. $\frac{5}{6} \times 36$ | 7. $\frac{4}{9} \times 18$ | 8. $\frac{2}{5} \times 60$ |
| 9. $\frac{4}{7} \times 42$ | 10. $\frac{3}{8} \times 48$ | 11. $\frac{1}{4} \times 40$ | 12. $\frac{3}{4} \times 16$ |
| 13. $\frac{5}{9} \times 36$ | 14. $\frac{5}{8} \times 40$ | 15. $\frac{6}{7} \times 14$ | 16. $\frac{9}{10} \times 30$ |

Solve.

17. Of the 12 saxophones in the band, $\frac{3}{4}$ are alto saxophones. How many alto saxophones are there?
-

Extra Practice**Worksheet PS6**

Pages 164-165

Solve only the problems which have all the needed facts.

1. A shop owner earned a profit of \$1500 in January, \$2300 in February, \$2150 in March, and \$1875 in April. What was her profit for the first third of the year?
2. It takes Paula $\frac{3}{4}$ of an hour to shovel the Huber's driveway. How much does she earn, if she is paid \$2.00 per hour?
3. Mr. Gould had a two hour wait between planes. He spent 45 minutes having lunch, 30 minutes reading the newspaper, and 45 minutes looking around. If his wait started at 16:05, what time was his next plane?
4. Marie gets \$2.00 a week for work she does around the house. She earns \$1.50 an hour for babysitting. How much money does she earn in a week?

Post-test**Unit 7**

What fraction of the set is shaded?



Write the missing numerator or denominator.

4. $\frac{3}{4} = \frac{9}{\quad}$

5. $\frac{1}{6} = \frac{4}{\quad}$

6. $\frac{5}{7} = \frac{\quad}{28}$

7. $\frac{3}{8} = \frac{\quad}{32}$

Write in simplest terms.

8. $\frac{4}{12}$

9. $\frac{10}{15}$

10. $\frac{18}{30}$

11. $\frac{25}{40}$

12. $\frac{16}{56}$

Compare using $<$ or $>$.

13. $\frac{1}{5} \bigcirc \frac{6}{15}$

14. $\frac{2}{18} \bigcirc \frac{1}{6}$

15. $\frac{25}{32} \bigcirc \frac{3}{4}$

16. $\frac{5}{9} \bigcirc \frac{21}{36}$

Change the mixed numeral to a fraction.

17. $2\frac{1}{2}$

18. $4\frac{3}{4}$

19. $5\frac{1}{3}$

20. $6\frac{3}{7}$

21. $3\frac{3}{10}$

Change the fraction to a mixed numeral.

22. $\frac{6}{4}$

23. $\frac{7}{3}$

24. $\frac{18}{4}$

25. $\frac{32}{5}$

26. $\frac{70}{10}$

Write as a decimal.

27. $\frac{3}{10}$

28. $\frac{23}{100}$

29. $\frac{3}{20}$

30. $\frac{13}{50}$

31. $\frac{7}{8}$

Multiply.

32. $\frac{1}{3} \times 30$

33. $\frac{1}{4} \times 36$

34. $\frac{1}{7} \times 35$

35. $\frac{1}{6} \times 66$

36. $\frac{3}{4} \times 16$

37. $\frac{2}{7} \times 21$

38. $\frac{5}{8} \times 24$

39. $\frac{5}{6} \times 36$

Solve.

40. Leonard bought 2 records and 3 blank tapes for \$23.50. How much did the tapes cost?

Pretest**Unit 8**

Multiply. Write the answer in simplest terms.

1. $\frac{2}{3} \times 24 = \underline{\hspace{2cm}}$

2. $20 \times \frac{3}{5} = \underline{\hspace{2cm}}$

3. $\frac{5}{8} \times 32 = \underline{\hspace{2cm}}$

4. $\frac{3}{4} \times 30 = \underline{\hspace{2cm}}$

5. $\frac{3}{4} \times \frac{8}{9} = \underline{\hspace{2cm}}$

6. $\frac{2}{5} \times \frac{6}{7} = \underline{\hspace{2cm}}$

7. $\frac{3}{10} \times \frac{2}{9} = \underline{\hspace{2cm}}$

8. $\frac{1}{25} \times \frac{8}{2} = \underline{\hspace{2cm}}$

9. $10 \times 2\frac{1}{2} = \underline{\hspace{2cm}}$

10. $\frac{2}{7} \times 1\frac{1}{4} = \underline{\hspace{2cm}}$

11. $3\frac{2}{3} \times 4 = \underline{\hspace{2cm}}$

12. $1\frac{2}{5} \times 5 = \underline{\hspace{2cm}}$

Find the product.

13.
$$\begin{array}{r} 2.4 \\ \times 18 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 3.15 \\ \times 6 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 8.019 \\ \times 27 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 6.43 \\ \times 83 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 0.7 \\ \times 0.2 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 0.3 \\ \times 0.8 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 0.1 \\ \times 0.1 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 0.9 \\ \times 0.6 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 2.5 \\ \times 6.3 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 8.2 \\ \times 1.2 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 3.7 \\ \times 4.5 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 6.9 \\ \times 3.6 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 0.02 \\ \times 0.7 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 0.07 \\ \times 0.3 \\ \hline \end{array}$$

27.
$$\begin{array}{r} 0.15 \\ \times 0.9 \\ \hline \end{array}$$

28.
$$\begin{array}{r} 0.84 \\ \times 0.7 \\ \hline \end{array}$$

29.
$$\begin{array}{r} 4.16 \\ \times 2.5 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 3.85 \\ \times 1.7 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 8.02 \\ \times 3.3 \\ \hline \end{array}$$

32.
$$\begin{array}{r} 6.91 \\ \times 4.6 \\ \hline \end{array}$$

Solve.

33. If a car is travelling at 96 km/h, how long will it take the car to go 144 km? 384 km? 504 km?

34. Estimate the cost of 2.3 kg of apples, if the price is \$1.87/kg. Find the exact amount.

Extra Practice**Worksheet A39**

Pages 170-171

Multiply. Write the answer in simplest terms.

1. $\frac{1}{5}$ of 92 = _____

2. $\frac{1}{8} \times 47 =$ _____

3. $\frac{2}{3}$ of 10 = _____

4. $\frac{3}{5} \times 15 =$ _____

5. $\frac{2}{7} \times 18 =$ _____

6. $9 \times \frac{1}{2} =$ _____

7. $18 \times \frac{1}{10} =$ _____

8. $27 \times \frac{1}{4} =$ _____

9. $\frac{2}{3} \times 30 =$ _____

10. $\frac{2}{5} \times 45 =$ _____

11. $\frac{3}{4} \times 64 =$ _____

12. $50 \times \frac{4}{9} =$ _____

13. $16 \times \frac{2}{3} =$ _____

14. $\frac{5}{6} \times 40 =$ _____

15. $\frac{3}{8} \times 21 =$ _____

Solve.

16. George is $\frac{7}{8}$ as old as his brother. If his brother is 16, how old is George?

Extra Practice**Worksheet A40**

Pages 172-173

Multiply. Write the answer in simplest terms.

1. $\frac{1}{4} \times \frac{2}{3} =$ _____

2. $\frac{3}{8} \times \frac{4}{6} =$ _____

3. $\frac{1}{2} \times \frac{1}{5} =$ _____

4. $\frac{2}{3} \times \frac{7}{8} =$ _____

5. $\frac{3}{4} \times \frac{5}{6} =$ _____

6. $\frac{5}{8} \times \frac{1}{2} =$ _____

7. $\frac{1}{3} \times \frac{4}{5} =$ _____

8. $\frac{7}{8} \times \frac{2}{3} =$ _____

9. $\frac{9}{10} \times \frac{1}{3} =$ _____

10. $\frac{7}{10} \times \frac{1}{2} =$ _____

11. $\frac{8}{9} \times \frac{3}{4} =$ _____

12. $\frac{1}{3} \times \frac{7}{8} =$ _____

13. $\frac{4}{5} \times \frac{2}{3} =$ _____

14. $\frac{7}{9} \times \frac{3}{5} =$ _____

15. $\frac{3}{8} \times \frac{5}{6} =$ _____

Solve.

16. Three fifths of the students have blond hair and three fourths of these have blue eyes. What fraction of the students are blue-eyed blonds?

Extra Practice**Worksheet A41**

Pages 174-175

Multiply. Write the answer in simplest terms.

1. $\frac{1}{4} \times 6\frac{1}{2} = \underline{\hspace{2cm}}$

2. $\frac{1}{3} \times 2\frac{3}{4} = \underline{\hspace{2cm}}$

3. $\frac{1}{2} \times 3\frac{1}{3} = \underline{\hspace{2cm}}$

4. $\frac{3}{4} \times 8\frac{1}{4} = \underline{\hspace{2cm}}$

5. $\frac{2}{5} \times 3\frac{1}{5} = \underline{\hspace{2cm}}$

6. $\frac{2}{3} \times 4\frac{1}{2} = \underline{\hspace{2cm}}$

7. $3\frac{2}{3} \times \frac{9}{10} = \underline{\hspace{2cm}}$

8. $2\frac{3}{8} \times \frac{2}{3} = \underline{\hspace{2cm}}$

9. $4\frac{2}{3} \times \frac{6}{7} = \underline{\hspace{2cm}}$

10. $\frac{3}{8} \times 1\frac{2}{5} = \underline{\hspace{2cm}}$

11. $\frac{2}{9} \times 2\frac{1}{4} = \underline{\hspace{2cm}}$

12. $\frac{3}{7} \times 3\frac{5}{6} = \underline{\hspace{2cm}}$

13. $2\frac{3}{5} \times \frac{2}{3} = \underline{\hspace{2cm}}$

14. $3\frac{5}{6} \times \frac{3}{4} = \underline{\hspace{2cm}}$

15. $1\frac{1}{2} \times \frac{7}{8} = \underline{\hspace{2cm}}$

Solve.

16. Merle resolved that she would spend half of her free time doing useful things. On Saturday she has $5\frac{1}{2}$ hours free. How much of that time should she spend on useful things?

Extra Practice**Worksheet PS7**

Pages 176-177

Use these formulas to solve the problems.

Circle:

$D = 2 \times R$

$C = \pi \times D$

$A = \pi \times R^2$

Rectangle: $A = L \times W$ Rectangular Prism: $V = L \times W \times H$ Triangle: $A = \frac{1}{2} \times B \times H$ or $\frac{B \times H}{2}$

Solve these problems using the formulas.

- What is the area of a triangle that has a base of 10 cm and a height of 8 cm?
- What is the diameter of a circle having a radius of 2.4 m?
- What is the volume of a box that is 11 cm long, 8 cm wide, and 3.5 cm high?
- A circular table top has a radius of 40 cm. What is its area?
- What is the area of a rectangle 6.2 m wide and 8.5 m long?

Extra Practice**Worksheet A42**

Pages 178-179

Multiply. Estimate to check whether the answer is reasonable.

1.
$$\begin{array}{r} 2.6 \\ \times 4 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 8.17 \\ \times 3 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 7.42 \\ \times 6 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 3.472 \\ \times 3 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 9.07 \\ \times 5 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 6.7 \\ \times 3 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 4.8 \\ \times 6 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 5.016 \\ \times 2 \\ \hline \end{array}$$

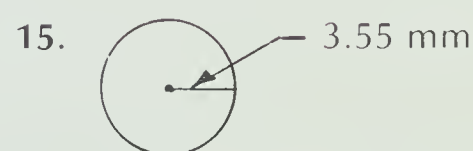
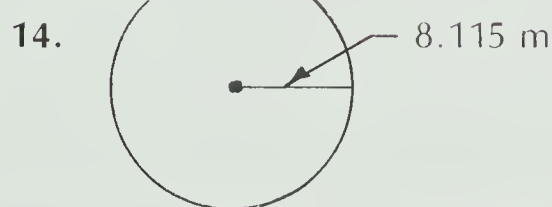
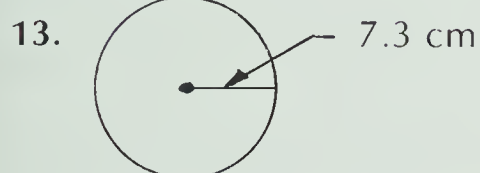
9.
$$\begin{array}{r} 1.192 \\ \times 7 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 2.34 \\ \times 6 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 9.5 \\ \times 9 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 7.81 \\ \times 2 \\ \hline \end{array}$$

Find the diameter of each circle.

**Extra Practice****Worksheet A43**

Pages 180-181

Find the product.

1.
$$\begin{array}{r} 0.8 \\ \times 0.2 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 0.7 \\ \times 0.5 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 0.1 \\ \times 0.3 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 0.5 \\ \times 0.8 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 0.2 \\ \times 0.2 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 0.9 \\ \times 0.2 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 0.2 \\ \times 0.1 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 0.3 \\ \times 0.6 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 0.7 \\ \times 0.4 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 0.3 \\ \times 0.3 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 0.9 \\ \times 0.8 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 0.1 \\ \times 0.1 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 0.1 \\ \times 0.5 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 0.7 \\ \times 0.5 \\ \hline \end{array}$$

Complete. Use $<$, $=$, or $>$.

16. $0.4 + 0.4 \bigcirc 0.4 \times 2$

17. $0.3 + 0.6 \bigcirc 0.9 \times 0.1$

18. $6 \times 0.7 \bigcirc 20.5 + 20.5$

19. $0.4 \times 0.7 \bigcirc 0.36 - 0.08$

Extra Practice

Worksheet A44

Pages 182-183

Multiply.

1. 1.7
× 0.8

2. 2.6
× 6

3. 4.5
× 5.4

4. 3.9
× 2.6

5. 8.2
× 0.7
6. 9.3
× 4.2

7. 6.1
× 3.7

8. 9.8
× 5

9. 7.6
× 2.7

10. 5.1
× 4.8
11. 5.8
× 2.8

12. 4.9
× 6

13. 8.3
× 1.1

14. 2.6
× 0.7

15. 3.5
× 5.9

Solve.

16. What is the area of a rectangular room 8.7 m long and 6.5 m wide?

Extra Practice

Worksheet A45

Pages 184-185

Find the product.

1. 0.24
× 0.8

2. 0.35
× 0.7

3. 0.46
× 0.6

4. 0.75
× 0.4

5. 0.66
× 8
6. 0.97
× 0.1

7. 0.68
× 0.5

8. 0.19
× 0.2

9. 0.27
× 3

10. 0.84
× 0.6
11. 0.38
× 0.3

12. 0.73
× 5

13. 0.64
× 0.4

14. 0.47
× 4

15. 0.86
× 0.6

16. Complete.

X	42	38.4	0.5	1.9	700	0.2	97
10							
1							
0.1							
0.01							

Extra Practice**Worksheet A46**

Pages 186-187

Multiply.

$$\begin{array}{r} 1. \quad 4.22 \\ \times 0.8 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 2.69 \\ \times 45 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 7.01 \\ \times 3.8 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 9.2 \\ \times 1.4 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 6.12 \\ \times 1.5 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 3.47 \\ \times 8.2 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 94.8 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 3.17 \\ \times 8.2 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 3.8 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 4.81 \\ \times 5.6 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 2.07 \\ \times 0.3 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 5.23 \\ \times 84 \\ \hline \end{array}$$

Solve.

13. If grapes cost \$3.89/kg, how much would 1.6 kg cost?

14. If a loaf of bread cost \$1.17, how much would 4 loaves cost?

Extra Practice**Worksheet PS8**

Pages 188-189

Solve. Make a table to help you.

1. A rectangular component needs to have an area of 24 mm^2 and the smallest possible perimeter. What should be the dimensions of the component?
2. Two dice are used. How many different ways are there to throw a seven?
3. A family has four children. How many different combinations of boys and/or girls could they have?
4. The students in the Camera Club are the following ages: 13, 12, 12, 9, 11, 10, 12, 11, 12, 11, 10, 11, 12, and 13. What age are most of the students?
5. Which is the best buy: 63¢ for 25 mL of toothpaste, \$1.15 for 50 mL, or \$1.80 for 75 mL?

Post-test**Unit 8**

Multiply. Write the answer in simplest terms.

1. $\frac{3}{4} \times 36 = \underline{\hspace{2cm}}$

2. $45 \times \frac{2}{5} = \underline{\hspace{2cm}}$

3. $\frac{5}{6} \times 42 = \underline{\hspace{2cm}}$

4. $25 \times \frac{2}{3} = \underline{\hspace{2cm}}$

5. $\frac{2}{3} \times \frac{9}{10} = \underline{\hspace{2cm}}$

6. $\frac{3}{7} \times \frac{14}{2} = \underline{\hspace{2cm}}$

7. $\frac{5}{8} \times \frac{3}{10} = \underline{\hspace{2cm}}$

8. $\frac{1}{10} \times \frac{1}{2} = \underline{\hspace{2cm}}$

9. $5 \times 2\frac{1}{2} = \underline{\hspace{2cm}}$

10. $\frac{3}{8} \times 3\frac{1}{3} = \underline{\hspace{2cm}}$

11. $1\frac{5}{6} \times 4 = \underline{\hspace{2cm}}$

12. $\frac{2}{3} \times 8\frac{1}{2} = \underline{\hspace{2cm}}$

Find the products.

13.
$$\begin{array}{r} 3.5 \\ \times 7 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 4.08 \\ \times 24 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 9.123 \\ \times 8 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 4.257 \\ \times 63 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 0.6 \\ \times 0.3 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 0.4 \\ \times 0.2 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 0.5 \\ \times 0.7 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 0.8 \\ \times 0.6 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 6.1 \\ \times 3.4 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 7.3 \\ \times 2.1 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 5.4 \\ \times 6.7 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 8.5 \\ \times 1.6 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 0.05 \\ \times 0.3 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 0.01 \\ \times 0.6 \\ \hline \end{array}$$

27.
$$\begin{array}{r} 0.37 \\ \times 0.7 \\ \hline \end{array}$$

28.
$$\begin{array}{r} 0.29 \\ \times 0.8 \\ \hline \end{array}$$

29.
$$\begin{array}{r} 5.22 \\ \times 3.4 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 7.04 \\ \times 5.2 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 3.91 \\ \times 4.6 \\ \hline \end{array}$$

32.
$$\begin{array}{r} 8.83 \\ \times 7.2 \\ \hline \end{array}$$

Solve.

33. If a car is travelling at 96 km/h, how far will it go in 15 min?
45 min? 1 hour and 30 min?

34. Estimate the cost of 1.8 kg of grapes, if the price is \$3.93/kg.
Find the exact amount.

Pretest**Unit 9**

Solve.

1. 2 bags cost \$3.60. What is the cost of one bag?
2. One square metre of rug costs \$18.95. What do 6 m² cost?
3. Angie made 2 bracelets in 45 minutes. How long did it take her to make one bracelet?
4. A plane goes 237 km/h. How far will it go in 4 h?

Write a ratio to compare these numbers of objects.

5. 5 books to 9 students
6. 10 people to 2 cars
7. 6 boys to 8 girls
8. 9 wins to 2 losses

Find the value of N .

9. $\frac{3}{8} = \frac{N}{40}$
10. $\frac{9}{10} = \frac{81}{N}$
11. $\frac{N}{7} = \frac{10}{35}$
12. $\frac{5}{N} = \frac{25}{60}$

Write the equivalent decimal and percent.

13. $\frac{2}{100}$
14. $\frac{43}{100}$
15. $\frac{90}{100}$
16. $\frac{150}{100}$

Write the equivalent percent.

17. $\frac{7}{10}$
18. $\frac{13}{20}$
19. $\frac{4}{5}$
20. $\frac{39}{50}$

Write an equivalent fraction in simplest terms.

21. 10%
22. 1%
23. 37%
24. 70%

Calculate.

25. 12% of 300
26. 5% of 40
27. 20% of 180

Solve.

28. Two balls cost \$26.46. How much will 6 balls cost?
29. Twenty-five students are in a class. Fifteen of them are girls. What percent are girls?

Extra Practice**Worksheet A47**

Pages 194-195

Find the cost.

1. 5 kg at \$0.63/kg
2. 8 m at 45¢/m
3. 4 bottles at \$2.88 bottle
4. 3 days at \$33/day

Find the cost of one.

5. 5 jars for \$11.35
6. 10 h for \$75
7. 3 g for \$39.15
8. 16 L for \$6.32

Complete the tables.

9.	Number of hamburgers	1	2	3	4	5
	Cost of hamburgers	\$1.30				

Extra Practice**Worksheet A48**

Pages 196-197

Complete the table for the cyclist travelling at an average speed of 60 km/h.

1.	Time	1 h	2 h	3 h	4 h	5 h
	Distance	60 km				

Find the distance travelled.

2. At 340 m/min, how far could a runner go in 5 min?
3. At 110 km/h, how far could a car go in 3 h?

Find the speed.

4. 1956 km in 3 h (kilometres per hour)
5. 20 m in 5 s (metres per second)
6. 10 pages in 25 min (pages per minute)

Find the time.

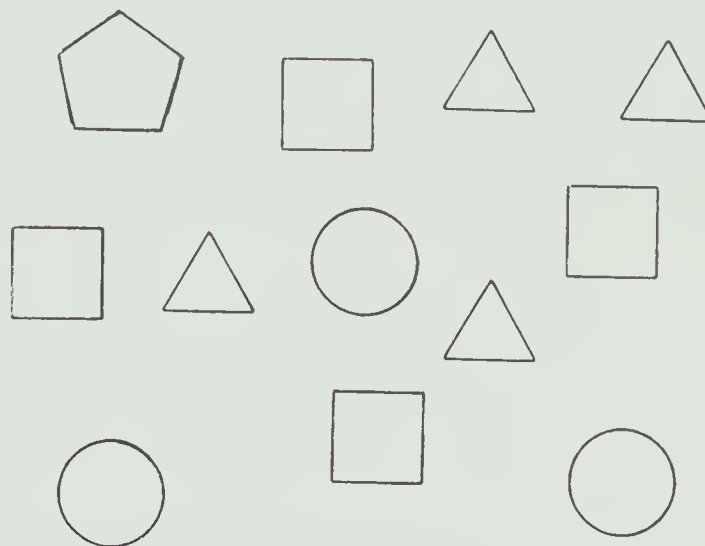
7. At 95 km/h, how many hours would it take a car to go 475 km?
8. At 330 m/s, how many seconds would it take sound to travel 990 m?

Extra Practice**Worksheet N15**

Pages 198-199

Write the ratio to compare the numbers of objects.

1. squares to triangles _____
2. triangles to circles _____
3. pentagons to circles _____
4. pentagons to squares _____
5. squares to pentagons _____
6. circles to squares _____



Solve.

7. In a class election, Jerry got 12 votes and Sandra got 16. What was the ratio of votes for Sandra to votes for Jerry?
8. In last summer's baseball season, Lou had 10 home runs, Ingrid had 8, and Claude had 7. Write these ratios:
 - a. Lou's home runs to Ingrid's
 - b. Claude's home runs to Lou's
 - c. Ingrid's home runs to Claude's

Extra Practice**Worksheet N16**

Pages 200-201

Complete the proportion.

- | | | | |
|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| 1. $\frac{2}{3} = \frac{10}{\quad}$ | 2. $\frac{2}{3} = \frac{\quad}{36}$ | 3. $\frac{1}{5} = \frac{\quad}{25}$ | 4. $\frac{1}{5} = \frac{4}{\quad}$ |
| 5. $\frac{2}{\quad} = \frac{6}{15}$ | 6. $\frac{\quad}{8} = \frac{9}{24}$ | 7. $\frac{1}{\quad} = \frac{3}{30}$ | 8. $\frac{\quad}{12} = \frac{3}{36}$ |
| 9. $\frac{40}{4} = \frac{10}{\quad}$ | 10. $\frac{2}{9} = \frac{\quad}{27}$ | 11. $\frac{3}{5} = \frac{12}{\quad}$ | 12. $\frac{15}{18} = \frac{\quad}{6}$ |

Find the value of N .

- | | |
|------------------------|----------------------|
| 13. $9 : 3 = 3 : N$ | 14. $4 : 10 = N : 5$ |
| 15. $100 : 25 = 4 : N$ | 16. $N : 25 = 5 : 1$ |
| 17. $200 : N = 4 : 1$ | 18. $7 : 2 = 49 : N$ |

Extra Practice

Worksheet PS9

Pages 202-203

Use proportions to solve these problems.

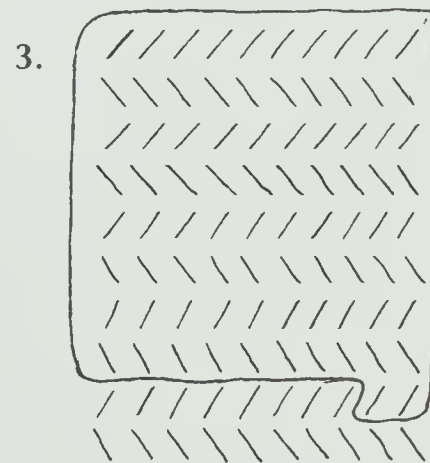
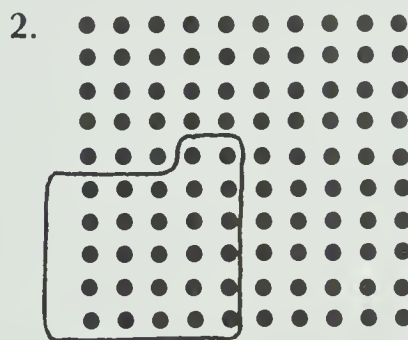
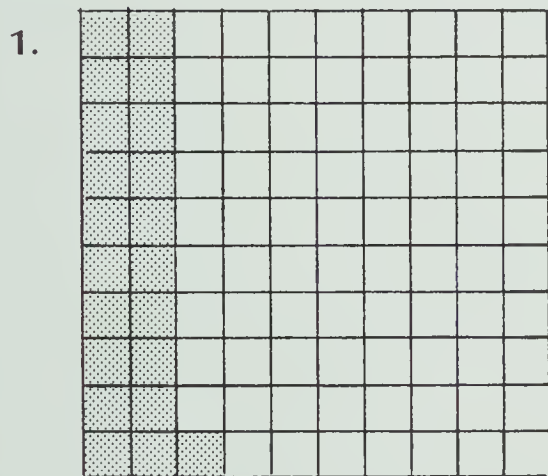
1. Marta bicycled 5 km in 29 minutes. If she keeps up the same rate, how long will it take her to bicycle 10 km?
2. A factory can make 1000 pairs of shoes in 3 days. How many shoes can they make in 12 days?
3. If 2 bottles of shampoo cost \$5.16, how much will 6 bottles cost?
4. Pete earns \$54 for 12 h work. How much does he earn an hour?
5. A recipe that serves 6 people requires 50 g of butter. How much butter is needed if the recipe is increased to serve 18 people?

Extra Practice

Worksheet N17

Pages 204-205

Write the circled or shaded part in percent form.



Write in percent form.

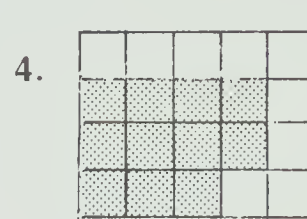
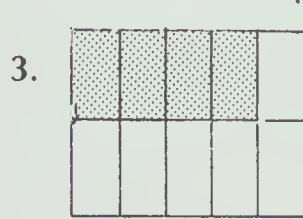
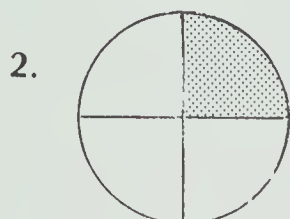
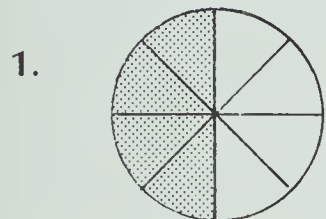
4. $\frac{5}{100}$
5. $\frac{72}{100}$
6. $\frac{37}{100}$
7. $\frac{100}{100}$
8. $\frac{535}{100}$
9. 0.02
10. 0.15
11. 0.86
12. 2.62
13. 1.00
14. 3 m of a 100 m fence painted
15. 65 km of a 100 km distance driven
16. 5¢ of each \$1.00 earned is saved
17. \$98 of a \$100 paycheck for food

Extra Practice

Worksheet N18

Pages 206-207

Write the fraction, decimal, and percent for the shaded part.



Write the equivalent percent.

5. $\frac{3}{10}$

6. $\frac{2}{5}$

7. $\frac{13}{20}$

8. $\frac{18}{25}$

9. $\frac{1}{50}$

10. $\frac{4}{20}$

11. $\frac{9}{10}$

12. $\frac{47}{50}$

13. $\frac{9}{25}$

14. $\frac{3}{5}$

Solve.

15. You are to receive some money as a gift. Would you rather have $\frac{3}{5}$ of the gift or 65%?

16. I have some candy in a box. Would you rather have $\frac{4}{25}$ of it or 15%?

Extra Practice

Worksheet N19

Pages 208-209

Write as a fraction in simplest terms.

1. 25%

2. 30%

3. 42%

4. 80%

5. 10%

6. 95%

7. 60%

8. 73%

9. 90%

10. 96%

Compare. Use $<$, $=$, or $>$.

11. $16\% \bigcirc \frac{4}{50}$

12. $65\% \bigcirc \frac{17}{20}$

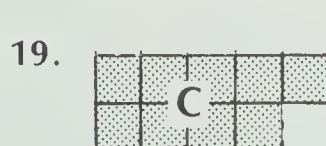
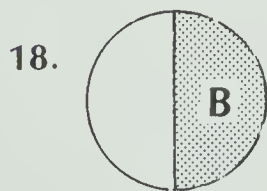
13. $41\% \bigcirc \frac{2}{5}$

14. $3\% \bigcirc \frac{1}{25}$

15. $89\% \bigcirc \frac{9}{10}$

16. $75\% \bigcirc \frac{15}{20}$

Write the percent and the fraction shaded for each letter.



A = _____

B = _____

C = _____

D = _____

Extra Practice**Worksheet A49**

Pages 210-211

Calculate.

- | | | |
|---------------|---------------|---------------|
| 1. 20% of 10 | 2. 25% of 25 | 3. 10% of 40 |
| 4. 68% of 200 | 5. 52% of 350 | 6. 79% of 40 |
| 7. 6% of 81 | 8. 13% of 43 | 9. 5% of 220 |
| 10. 3% of 117 | 11. 21% of 68 | 12. 7% of 387 |

Solve.

13. Mrs. Wyatt receives a 15% commission on her sales. If her sales amount to \$2050, how much commission does she receive?
14. Mr. Wong marks up items in his store by 30% to cover his costs. If an item costs him \$64, how much markup will he add to the price?

Extra Practice**Worksheet PS10**

Pages 212-213

Solve.

- Of the 60 students in grade 6, 35% voted for Lenore for class president. How many votes did she receive?
- Acme Motors' sales last month were \$587 000. This month their sales were down 10%. How much did their sales drop? What were their sales this month?
- Roller skates that usually cost \$79 were marked 25% off. By how much is the price reduced? What is the new price?
- 75% of the students at Kincaid School eat in the cafeteria. If there are 536 students in the school, how many eat in the cafeteria? How many don't eat in the cafeteria?

Post-test**Unit 9**

Solve.

1. 3 cartons cost \$2.73. What does one carton cost?
2. One litre costs \$0.84. How much do 4 L cost?
3. At 14 m in 3 s, how far can a runner go in 9 s?
4. The Dales drove 228 km in 3 h. About how far did they go each hour?

Write a ratio to compare these numbers of things.

5. 9 girls to 10 boys
6. 10 violins to 3 clarinets
7. 4 trucks to 98 cars
8. 20 desks to 20 students

Find the value of N .

9. $\frac{7}{10} = \frac{N}{30}$
10. $\frac{N}{8} = \frac{20}{32}$
11. $\frac{2}{5} = \frac{10}{N}$
12. $\frac{9}{N} = \frac{36}{64}$

Write the equivalent decimal and percent.

13. $\frac{12}{100}$
14. $\frac{3}{100}$
15. $\frac{95}{100}$
16. $\frac{125}{100}$

Write the equivalent percent.

17. $\frac{7}{25}$
18. $\frac{2}{5}$
19. $\frac{4}{10}$
20. $\frac{17}{50}$

Write an equivalent fraction in simplest terms.

21. 18%
22. 4%
23. 25%
24. 45%

Calculate.

25. 14% of 200
26. 8% of 76
27. 33% of 198

Solve.

28. Tony earns \$7.50 for 3 h work. How much would he earn for 10 h work?
29. There are 240 students at Nicolet School. 20% came down with measles. How many students had measles?

Pretest**Unit 10**

What is the reciprocal?

1. $\frac{1}{2}$ _____

2. $\frac{3}{8}$ _____

3. 9 _____

4. $\frac{1}{11}$ _____

Divide.

5. $\frac{2}{3} \div 4$

6. $\frac{1}{2} \div 8$

7. $\frac{5}{6} \div 2$

8. $\frac{3}{10} \div 4$

9. $7 \div \frac{1}{2}$

10. $\frac{3}{4} \div \frac{1}{4}$

11. $6 \div \frac{1}{4}$

12. $\frac{8}{9} \div \frac{1}{8}$

13. $\frac{1}{4} \div \frac{2}{3}$

14. $9 \div \frac{3}{4}$

15. $3\frac{1}{2} \div \frac{3}{8}$

16. $\frac{3}{4} \div \frac{5}{8}$

17. $6 \overline{)1.2}$

18. $5 \overline{)16.5}$

19. $4 \overline{)2.72}$

20. $0.4 \overline{)28}$

21. $0.7 \overline{)6.3}$

22. $1.5 \overline{)0.75}$

23. $0.05 \overline{)0.135}$

24. $0.06 \overline{)5.52}$

25. $0.33 \overline{)0.825}$

Divide. Round the quotient to the nearest hundredth.

26. $0.7 \overline{)3.9}$

27. $11 \overline{)2}$

28. $2.3 \overline{)12.45}$

Express the fraction as a decimal. Divide until the remainder is zero.

29. $\frac{3}{8} =$ _____

30. $\frac{7}{20} =$ _____

31. $\frac{13}{25} =$ _____

32. $\frac{67}{50} =$ _____

Solve.

33. I am thinking of a number. If I multiply it by 3 and then subtract 4, the answer is 20. What is the number?

Extra Practice**Worksheet N20**

Pages 218-219

Complete.

1. $\frac{2}{3} \times \frac{3}{2} = \underline{\hspace{2cm}}$

2. $\frac{8}{4} \times \frac{4}{8} = \underline{\hspace{2cm}}$

3. $\frac{7}{9} \times \underline{\hspace{2cm}} = 1$

4. $\underline{\hspace{2cm}} \times \frac{7}{2} = 1$

5. $3 \times \underline{\hspace{2cm}} = 1$

6. $\underline{\hspace{2cm}} \times \frac{1}{5} = 1$

Write the reciprocals. Check by multiplying.

7. $\frac{1}{6}$

8. $\frac{5}{6}$

9. $\frac{9}{2}$

10. $\frac{7}{8}$

11. $\frac{3}{10}$

12. $3\frac{1}{2}$

13. $\frac{3}{16}$

14. $1\frac{1}{3}$

Solve.

15. Mr. Lerner is making cookies at the bakery. Each tray of cookies is baked $\frac{1}{4}$ of an hour. How many trays of cookies can he bake in an hour?

Extra Practice**Worksheet A50**

Pages 220-221

Divide.

1. $\frac{3}{4} \div 5$

2. $\frac{7}{2} \div 8$

3. $\frac{5}{6} \div 9$

4. $\frac{5}{8} \div 5$

5. $\frac{4}{7} \div 8$

6. $\frac{2}{9} \div 6$

7. $\frac{7}{10} \div 25$

8. $\frac{6}{11} \div 4$

9. $\frac{12}{13} \div 2$

10. $\frac{1}{5} \div 8$

11. $\frac{1}{4} \div 12$

12. $\frac{7}{8} \div 2$

Solve.

13. There was $\frac{1}{4}$ container of paste left. Four students shared it. How much did each student get?
14. The supply box had $1\frac{1}{2}$ sheets of silver foil. Three students needed silver foil. How much foil did each student get?

Extra Practice**Worksheet A51**

Pages 222-223

Divide.

1. $3 \div \frac{1}{2}$

2. $5 \div \frac{1}{4}$

3. $8 \div \frac{1}{5}$

4. $6 \div \frac{1}{3}$

5. $\frac{1}{2} \div \frac{1}{2}$

6. $\frac{1}{3} \div \frac{1}{4}$

7. $\frac{1}{9} \div \frac{1}{5}$

8. $\frac{1}{7} \div \frac{1}{6}$

9. $\frac{2}{3} \div \frac{1}{4}$

10. $\frac{3}{7} \div \frac{1}{5}$

11. $\frac{5}{6} \div \frac{1}{2}$

12. $\frac{5}{8} \div \frac{1}{3}$

Solve.

13. Sheva has 6 lengths of ribbon. She needs $\frac{1}{3}$ of a length for each award. How many award ribbons can she make?

14. Ralph has $\frac{1}{2}$ pail of clay. Each ceramic piece uses $\frac{1}{8}$ pail. How many ceramic pieces can he make?

Extra Practice**Worksheet A52**

Pages 224-225

Divide.

1. $\frac{1}{4} \div \frac{2}{5}$

2. $\frac{1}{6} \div \frac{3}{7}$

3. $3 \div \frac{3}{10}$

4. $\frac{3}{2} \div \frac{5}{3}$

5. $2 \div \frac{5}{6}$

6. $\frac{6}{7} \div \frac{2}{9}$

7. $1\frac{1}{2} \div \frac{3}{4}$

8. $\frac{4}{9} \div \frac{2}{3}$

9. $\frac{5}{9} \div \frac{8}{3}$

10. $2\frac{1}{3} \div \frac{5}{7}$

11. $6 \div \frac{3}{4}$

12. $\frac{5}{6} \div \frac{1}{3}$

Solve.

13. The Laceys have 2 bags of potatoes. They use $\frac{1}{3}$ bag for a meal. How many meals will they have from the 2 bags of potatoes?

14. Dick has $1\frac{1}{2}$ blocks of wax. A candle uses $\frac{1}{10}$ of a block. How many candles can Dick make?

Extra Practice**Worksheet A53**

Pages 226-227

Divide.

1. $6 \overline{)8.4}$

2. $7 \overline{)0.84}$

3. $8 \overline{)0.448}$

4. $3 \overline{)1.842}$

5. $4 \overline{)1.84}$

6. $5 \overline{)1.735}$

7. $2 \overline{)0.06}$

8. $9 \overline{)2.97}$

9. $12 \overline{)44.4}$

10. $24 \overline{)0.552}$

11. $15 \overline{)3.90}$

12. $26 \overline{)0.208}$

Solve.

13. Six pairs of socks cost \$20.82. What does one pair cost?

14. Eight equal sections of clay have a total mass of 4.24 kg. What is the mass of one section?

Extra Practice**Worksheet A54**

Pages 228-229

Divide.

1. $0.4 \overline{)24}$

2. $0.6 \overline{)5.52}$

3. $0.7 \overline{)0.511}$

4. $0.3 \overline{)8.4}$

5. $1.5 \overline{)0.15}$

6. $1.7 \overline{)0.034}$

7. $2.1 \overline{)4.2}$

8. $3.5 \overline{)0.105}$

9. $0.2 \overline{)0.64}$

10. $0.3 \overline{)0.018}$

11. $1.4 \overline{)5.6}$

12. $3.3 \overline{)9.9}$

Solve.

13. Mrs. Jardin has 7.5 kg of sugar for preserving strawberries. She uses 1.5 kg for each batch. How many batches can she make?

14. A room has an area of 23.2 m². The length is 5.8 m. What is the width?

Extra Practice**Worksheet A55**

Pages 230-231

Divide.

1. $0.04 \overline{)28}$

2. $0.36 \overline{)828}$

3. $1.65 \overline{)11.55}$

4. $0.03 \overline{)4.2}$

5. $2.43 \overline{)85.05}$

6. $0.72 \overline{)496.8}$

7. $3.05 \overline{)335.5}$

8. $0.24 \overline{)7.92}$

9. $0.67 \overline{)56.95}$

10. $0.02 \overline{)0.074}$

11. $0.56 \overline{)0.784}$

12. $1.24 \overline{)14.88}$

Solve.

13. Zena bought some candy bars for \$2.45. Each bar costs \$0.35. How many bars did she buy?

14. Jonathan can run 0.87 m/s. How long would it take him to run 65.25 m?

Extra Practice**Worksheet A56**

Pages 232-233

Divide. Round to the nearest hundredth.

1. $3 \overline{)0.8}$

2. $6 \overline{)7.7}$

3. $0.8 \overline{)5.21}$

4. $0.5 \overline{)0.133}$

5. $0.6 \overline{)7}$

6. $4.3 \overline{)80}$

7. $7 \overline{)4.39}$

8. $9 \overline{)0.3}$

9. $25 \overline{)2}$

10. $0.04 \overline{)9}$

11. $0.03 \overline{)5.2}$

12. $0.01 \overline{)1.01}$

13. $8 \overline{)0.1}$

14. $0.6 \overline{)0.13}$

15. $5 \overline{)0.01}$

16. $0.12 \overline{)3.141}$

Solve. Round the answer to the nearest hundredth.

17. Sam earns \$35 a day. He works 8 h. About how much does he earn per hour?

18. An airplane travelled 1299.5 km in 3 h. How far did it travel each hour?

Extra Practice**Worksheet A57**

Pages 234-235

Express the fraction as a decimal. Divide until there is no remainder.

1. $\frac{4}{5}$

2. $\frac{3}{2}$

3. $\frac{3}{8}$

4. $\frac{5}{4}$

5. $\frac{9}{25}$

6. $\frac{2}{3}$

7. $\frac{1}{16}$

8. $\frac{2}{7}$

9. $\frac{2}{19}$

10. $\frac{5}{11}$

Solve.

11. Jack's allowance is $\frac{5}{6}$ of Jill's. What decimal part is this?

12. Ria can run $\frac{4}{3}$ as fast as Jon. How many times faster is this?
Round to the nearest tenth.

Extra Practice**Worksheet PS11**

Pages 236-237

Solve.

1. A decimal in tenths multiplied by itself is 11.56. What is the number?

2. Red Hots are 27¢ and Cool Cats are 35¢. Susan bought some of each. The total cost was \$2.56. How many of each did she buy?

3. Abraham is $\frac{1}{4}$ as old as Louis. Next year he will be $\frac{1}{3}$ as old. How old are Abraham and Louis now?

4. Joe has 10 coins that total 40¢. What coins does he have?

5. Rita has 45 customers on her paper route. Some only take the paper on Saturday and pay 50¢. Others take the paper daily and pay \$2.00 a week. Last week Rita collected \$67.50. How many Saturday customers and how many daily customers does she have?

Post-test**Unit 10**

What is the reciprocal?

1. $\frac{1}{3}$ _____

2. $\frac{3}{4}$ _____

3. 16 _____

4. $\frac{1}{9}$ _____

Divide.

5. $\frac{1}{2} \div 3$

6. $\frac{3}{4} \div 6$

7. $\frac{5}{8} \div 3$

8. $\frac{8}{9} \div 4$

9. $3 \div \frac{1}{2}$

10. $\frac{2}{3} \div \frac{1}{3}$

11. $8 \div \frac{1}{4}$

12. $\frac{5}{8} \div \frac{1}{3}$

13. $\frac{1}{3} \div \frac{5}{6}$

14. $6 \div \frac{3}{4}$

15. $2\frac{1}{4} \div \frac{2}{3}$

16. $\frac{2}{3} \div \frac{5}{6}$

17. $9 \overline{)0.9}$

18. $3 \overline{)14.1}$

19. $8 \overline{)4.32}$

20. $0.5 \overline{)35}$

21. $0.4 \overline{)1.44}$

22. $2.5 \overline{)0.125}$

23. $0.06 \overline{)0.438}$

24. $0.09 \overline{)3.78}$

25. $0.18 \overline{)0.648}$

Divide. Round the quotient to the nearest hundredth.

26. $0.3 \overline{)4.1}$

27. $9 \overline{)7}$

28. $4.6 \overline{)10.63}$

Express the fraction as a decimal. Divide until the remainder is zero.

29. $\frac{5}{8} =$ _____

30. $\frac{3}{25} =$ _____

31. $\frac{19}{20} =$ _____

32. $\frac{81}{50} =$ _____

Solve.

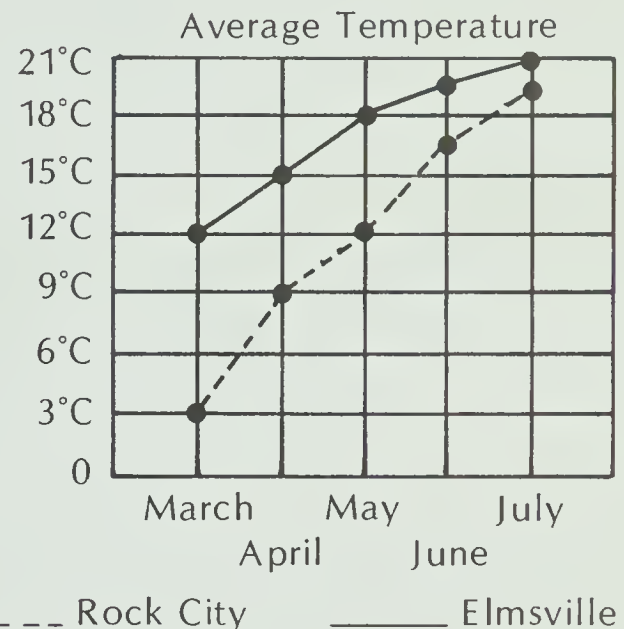
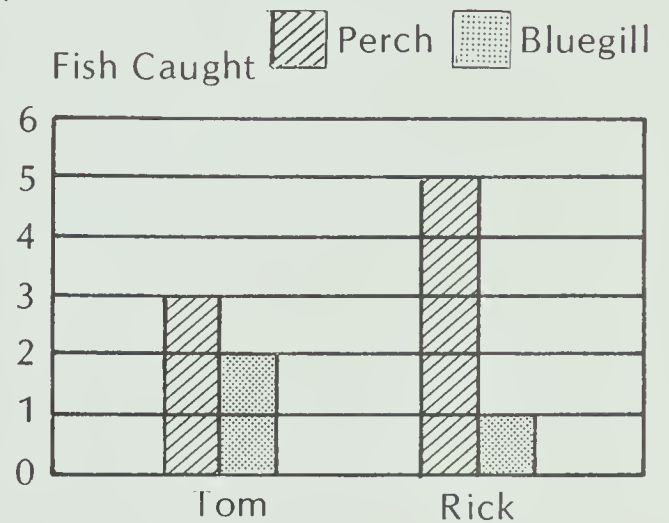
33. Kim is $\frac{2}{3}$ as old as Keith. In four years, she will be $\frac{3}{4}$ as old as Keith. How old are Kim and Keith now?

Pretest

Unit 11

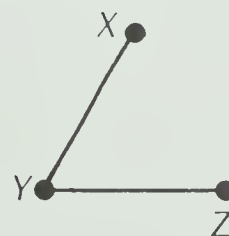
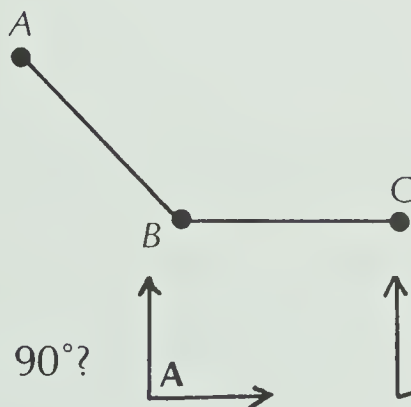
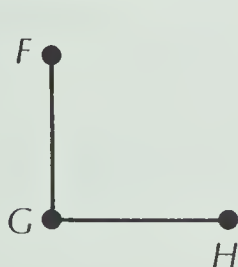
What are the range, mode, mean, and median of each set of numbers?
Round the mean to a whole number, if necessary.

- 32, 38, 27, 25, 30, 30, 29
- 416, 400, 416, 416, 405
- 18, 24, 18, 20, 17, 21
- How many bluegills did Rick catch?
- How many perch were caught in all?
- Which city averages cooler spring weather?
- What is Rock City's average temperature in June?
- During which month do the two cities have nearly the same average temperature?



Name the angle which is:

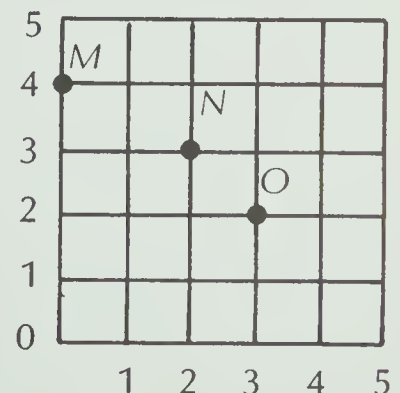
- acute
- right



- Which angle measures 90° ?
- A parking lot had 8 sedans, 6 station wagons, 3 vans, and 7 convertibles. Make a circle graph to show the cars in the parking lot.

Write the ordered pair for each point.

- M
- N
- O



Extra Practice

Worksheet A58

Pages 242-243

What is the range of the set of numbers?

What is the mode?

1. \$20, \$15, \$21, \$24, \$26, \$32, \$21

Range: _____

Mode: _____
2. 80 m, 78 m, 65 m, 96 m, 80 m, 78 m

Range: _____

Mode: _____
3. 11.0 L, 9.4 L, 10.1 L, 10.1 L, 10.6 L, 10.1 L

Range: _____

Mode: _____
4. \$2.55, \$3.40, \$3.05, \$3.40, \$3.65, \$3.40

Range: _____

Mode: _____

What are the range and mode of this data?

Monthly Rainfall

Jan. 7 cm	Feb. 6 cm	Mar. 4 cm	April 4 cm	May 8 cm	June 7 cm
July 3 cm	Aug. 2 cm	Sept. 1 cm	Oct. 4 cm	Nov. 4 cm	Dec. 5 cm

Range: _____
Mode: _____

Extra Practice

Worksheet A59

Pages 244-245

Find the mean. Round to the nearest whole number.

1. 10 cm, 11 cm, 14 cm, 12 cm, 13 cm

2. 21 kg, 34 kg, 45 kg
3. 1.8 km, 2.0 km, 3.1 km, 1.4 km, 4.4 km

4. 12.6 L, 15.8 L, 23.7 L, 18.5 L

Find the mean. Round to the nearest tenth.

5. 7.28 cm, 7.84 cm, 6.64 cm, 7.54 cm

6. 0.49 m, 0.44 m, 0.5 m

Solve.

7. In 6 basketball games, Mandy scored 10, 12, 8, 18, 6, and 12 points.

What was her mean number of points per game?

Extra Practice

Worksheet A60
Pages 246-247

Find the median.

1. 9, 11, 13, 12, 10, 16, 17
2. 45, 51, 43, 48
3. 97, 91, 93, 94, 98, 96, 92, 99
4. 23, 34, 1, 56, 78, 89, 67, 12, 45

Find the median and the mean.

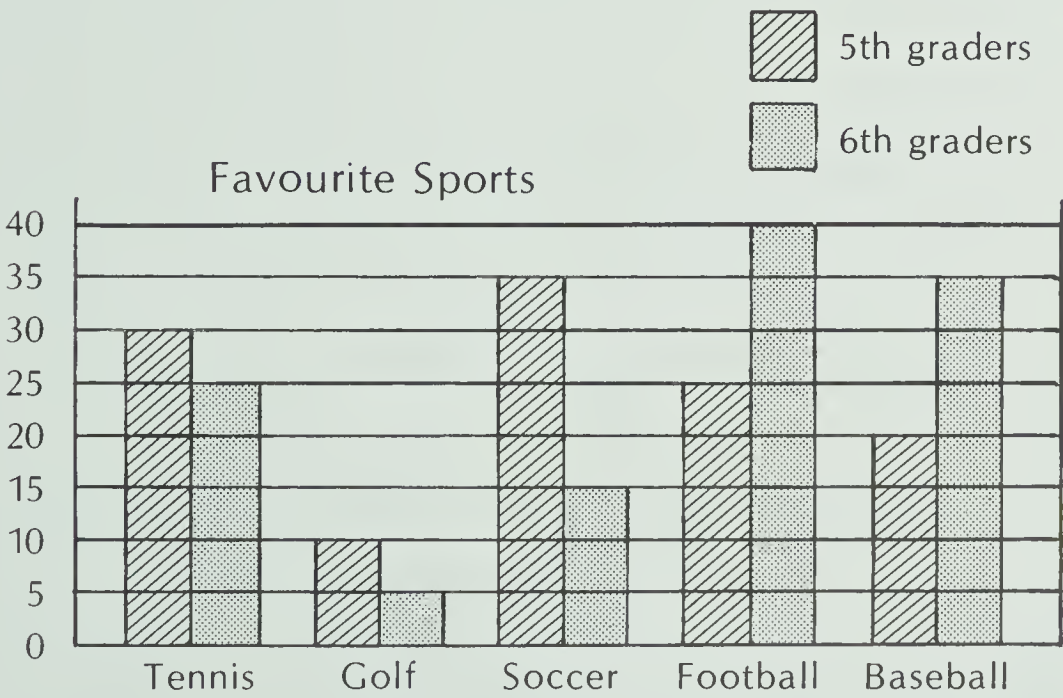
5. 0.3, 0.4, 0.5, 0.2, 0.1, 0, 0.6
6. 10.4, 10.3, 10.2, 10.9

Solve.

7. The prices of seven bicycles are \$250, \$425, \$135, \$175, \$320, \$235, and \$135. What is the median price of the bicycles? _____
- What is the mode price? _____ What is the mean price? _____

Extra Practice

Worksheet GR1
Pages 248-249



1. How many 5th graders chose soccer as their favourite sport?
2. How many 6th graders chose tennis as their favourite sport?

3. How many more 6th graders than 5th graders liked football best?
4. How many 5th graders were surveyed?
5. How many 6th graders were surveyed?

Extra Practice

Worksheet GR2

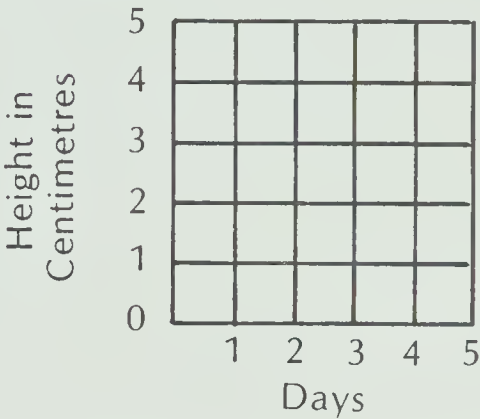
Pages 250-251

Complete the line graphs from the information given.

1. Growth of Bean Seed

Day	2	3	4	5
Height	1 cm	2 cm	4 cm	5 cm

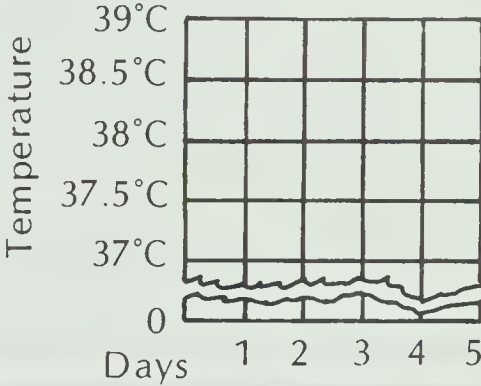
Growth of Bean Seed



2. Nancy's Temperature

Day	1	2	3	4	5
Temperature	37°C	38.5°C	38°C	37.5°C	37°C

Nancy's Temperature



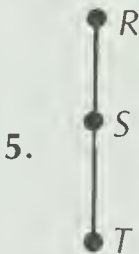
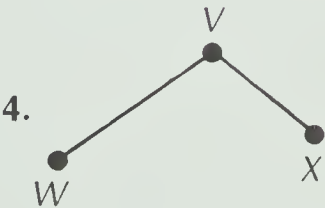
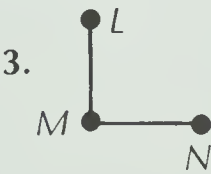
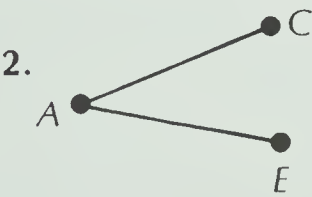
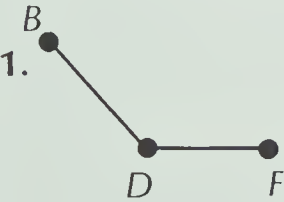
Extra Practice

Worksheet M14

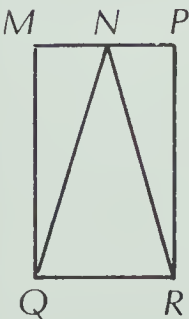
Pages 252-253

Is the angle acute, obtuse, right, or straight?

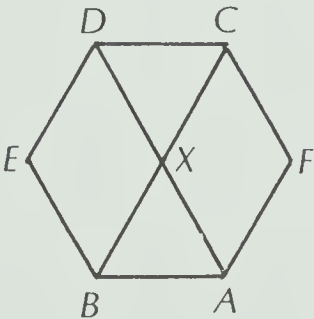
Name the angle using the letters shown.



Complete. Use acute, obtuse, right, or straight.



6. a. Angle NQR is _____.
b. Angle MNP is _____.
c. Angle MPR is _____.
d. Angle QRN is _____.
e. Angle MQR is _____.
f. Angle MQN is _____.
g. Angle PRQ is _____.
h. Angle QMN is _____.



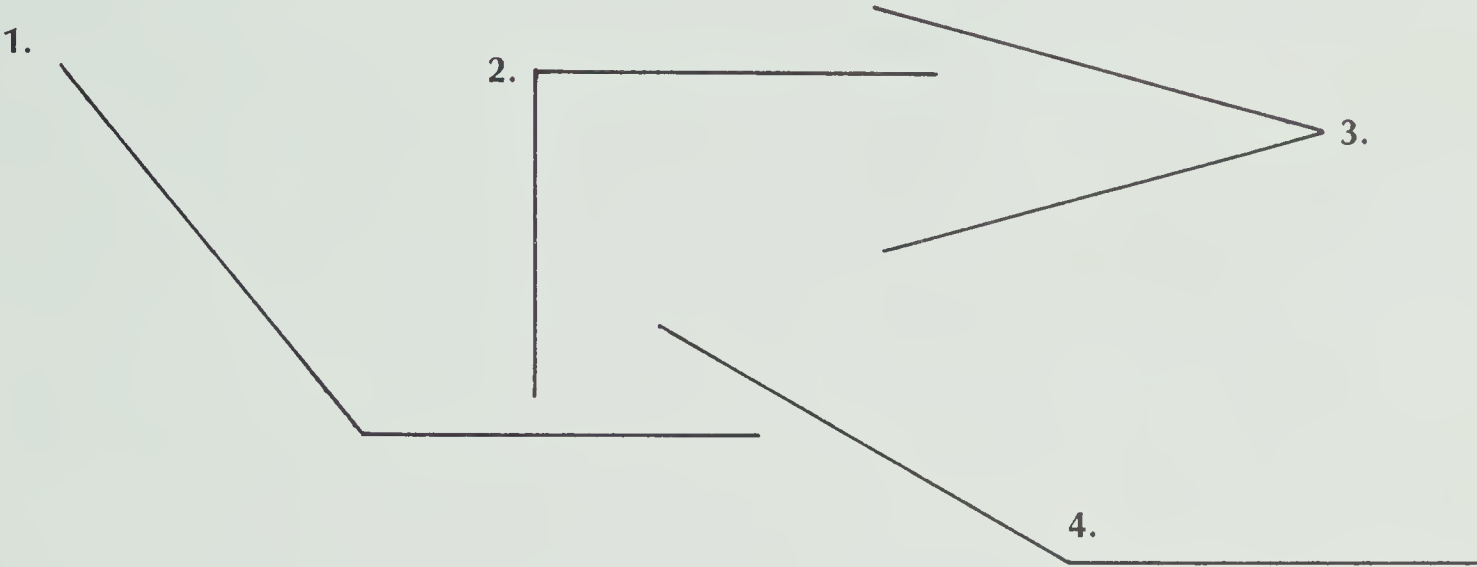
7. a. Angle DXC is _____.
b. Angle DXB is _____.
c. Angle BAX is _____.
d. Angle AXD is _____.
e. Angle CFA is _____.
f. Angle BXC is _____.
g. Angle XAF is _____.
h. Angle FAB is _____.

Extra Practice

Worksheet M15

Pages 254-255

Measure the angles.



5. Construct a 90° angle. 6. Construct a 10° angle. 7. Construct a 115° angle.

Extra Practice

Worksheet GR3

Pages 256-257

Complete the tables. Make circle graphs.

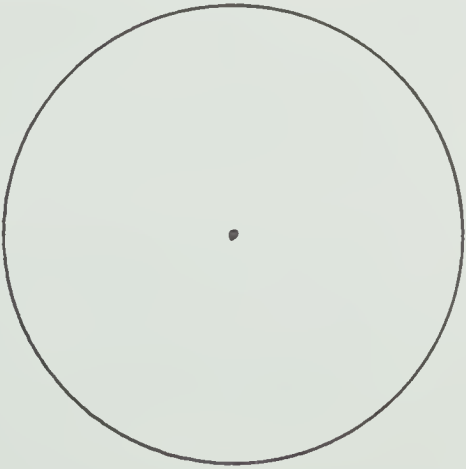
1.

Favourite Dessert	Number of Votes	Fraction of Total	Size of Angle
Cake	12		
Pie	6		
Ice Cream	14		
Fruit	2		
Cheese	2		



2.

Favourite Books	Number of Votes	Fraction of Total	Size of Angle
Mystery	6		
History	1		
Biography	3		
Sports	8		
Animals	6		

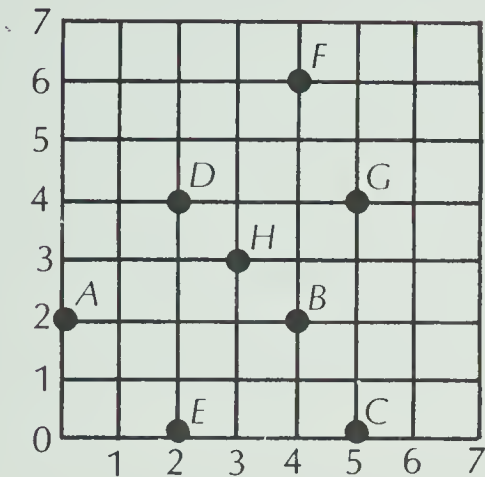


Extra Practice

Worksheet GR4

Pages 258-259

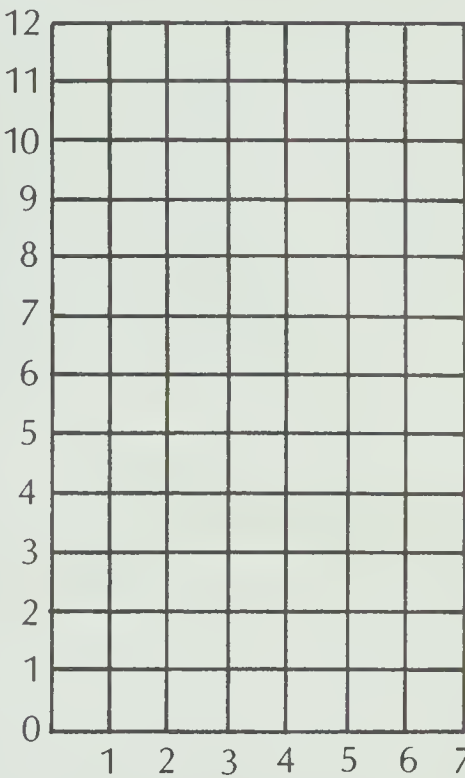
1. Write the ordered pair for each point.



A _____ B _____ C _____ D _____
E _____ F _____ G _____ H _____

2. Mark the points for each ordered pair on the grid. Join them in the order given to make a picture.

- a. (5, 2)
- b. (5, 3)
- c. (1, 3)
- d. (5, 12)
- e. (5, 2)
- f. (6, 2)
- g. (5, 1)
- h. (1, 1)
- i. (1, 2)
- j. (6, 2)



Extra Practice

Worksheet PS12

Pages 260-261

Solve.

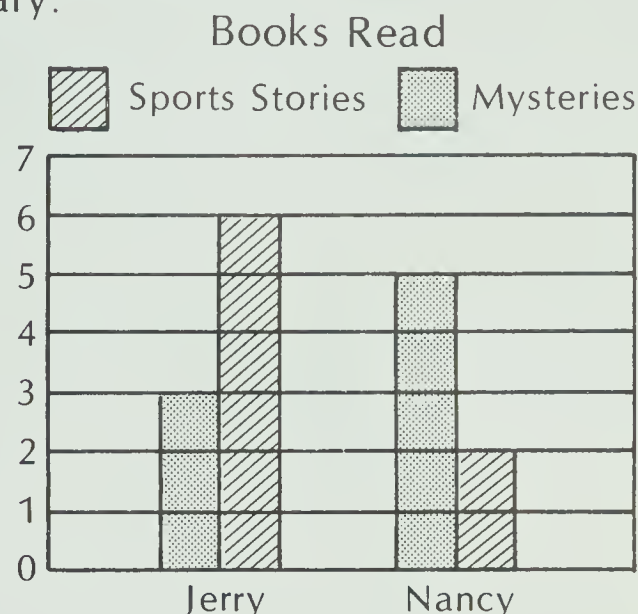
- 1. In Factory A, 6 workers can make 6 cabinets in 6 weeks. In Factory B, 4 workers can make 4 cabinets in 4 weeks. How many cabinets can Factory A and B make in 12 weeks?
- 2. People arrived at a family reunion in groups. Each group that arrived had 2 more people than the group ahead of it. The first group to arrive was Jake and Ann. How many people attended the reunion if 10 groups came?
- 3. Marcia is planning the seating arrangement at a circular table for herself, Ted, Vivian, Mae, and Sam. Marcia wants to sit next to her cousin Mae. How many different ways can she arrange the seating?

Post-test

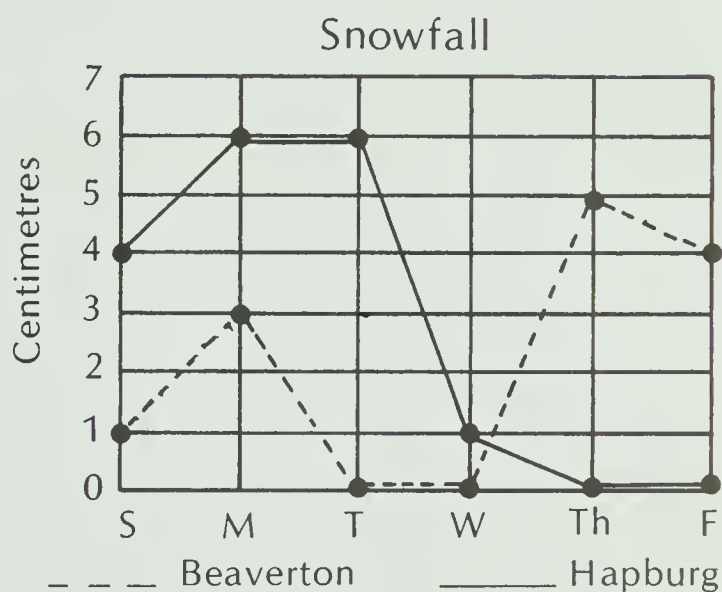
Unit 11

What are the range, mode, mean, and median of each set of numbers?
Round the mean to a whole number, if necessary.

- 45, 32, 43, 37, 37, 35, 34
- 124, 116, 116, 109, 116
- 71, 65, 75, 71, 68, 73
- Who read more mysteries?
- How many books did Jerry read?



- How much snow fell in Beaverton on Thursday?
- How much snow fell in Hapburg from Sunday through Friday?
- How much more snow fell on Hapburg on Monday than on Beaverton?



Name the angle which is:

- straight

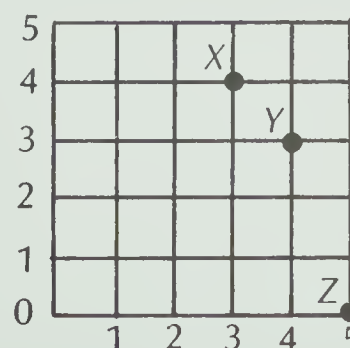
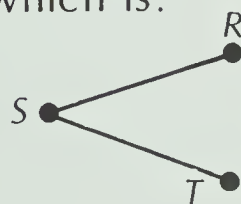
- acute

- Which angle measures 10° ?

- At a piano recital, there were 30 adults, 15 students, and 15 teachers. Make a circle graph to show the people who attended the recital.

Write the ordered pair for the point.

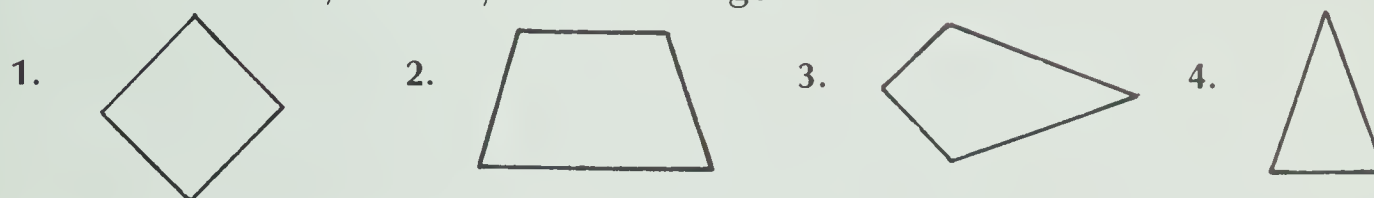
- X
- Z
- Y



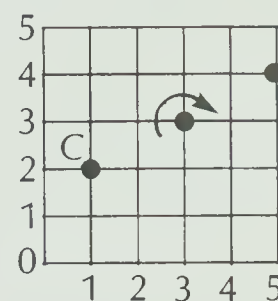
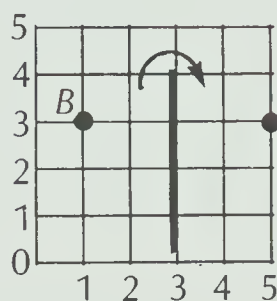
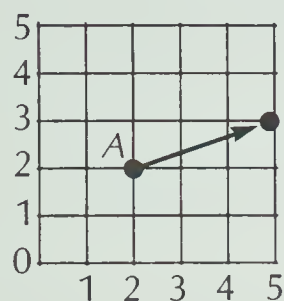
Pretest

Unit 12

Draw a line of symmetry for each figure.

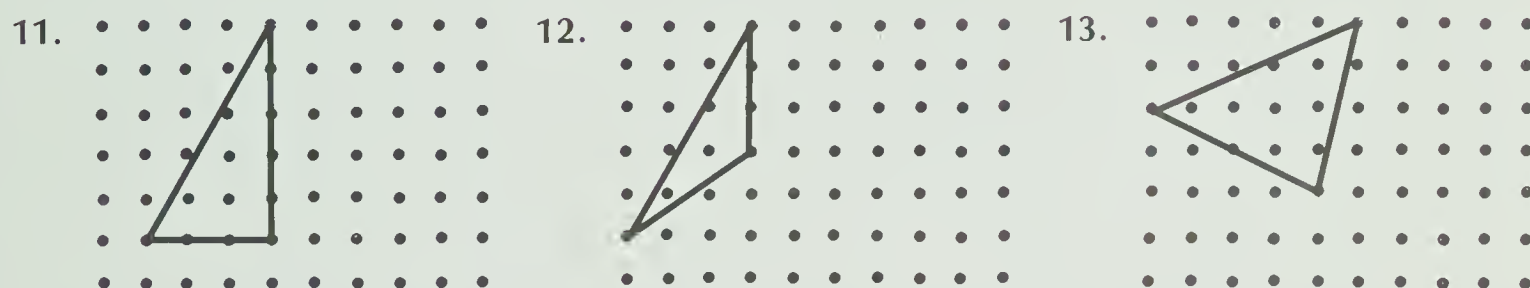


Identify the motion and the image.



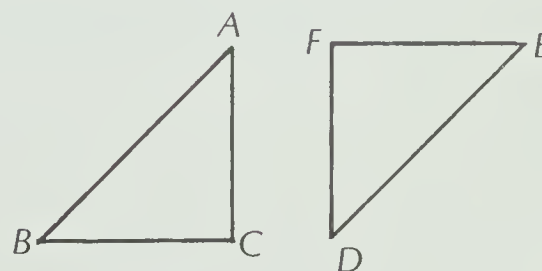
5. _____ 7. _____ 9. _____
 6. $A \rightarrow (\quad , \quad)$ 8. $B \rightarrow (\quad , \quad)$ 10. $C \rightarrow (\quad , \quad)$

Draw a congruent triangle.



The triangles are congruent.

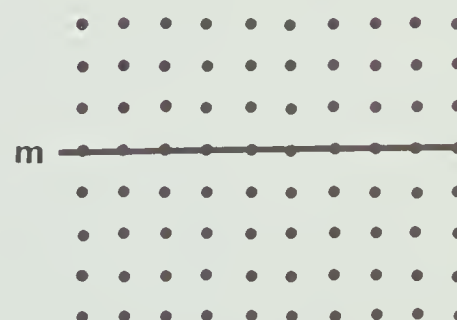
14. Side AB corresponds to side _____.
 15. Vertex F corresponds to vertex _____.



16. Draw a line parallel to m .
 17. Draw a line perpendicular to m .
 18. The sum of the angles in a triangle is _____.

Draw and label each.

19. right triangle 21. square 23. parallelogram
 20. isosceles triangle 22. rectangle

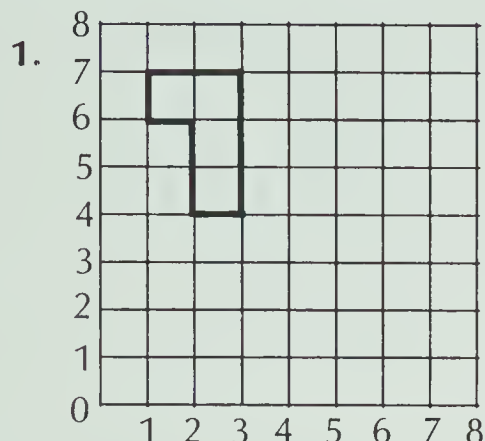


Extra Practice

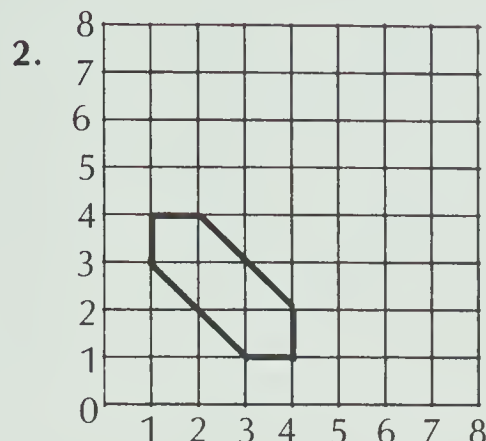
Worksheet G1

Pages 266-267

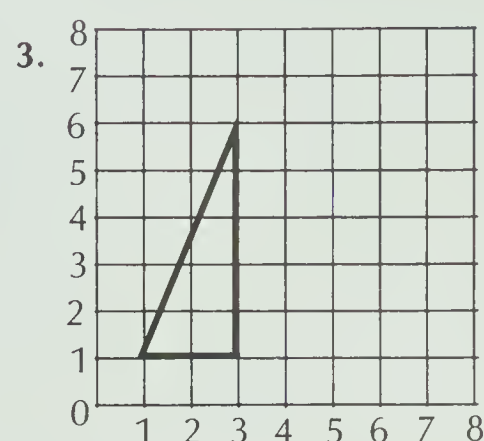
Draw the slide image.



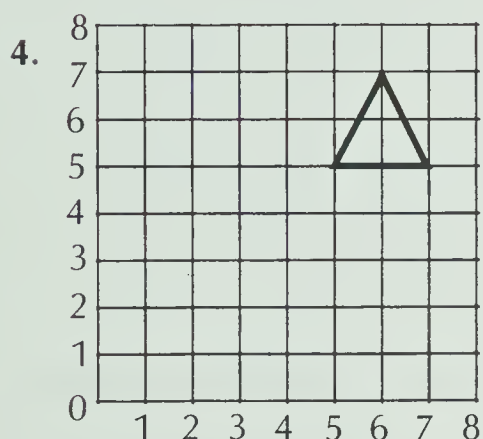
right 4, down 3



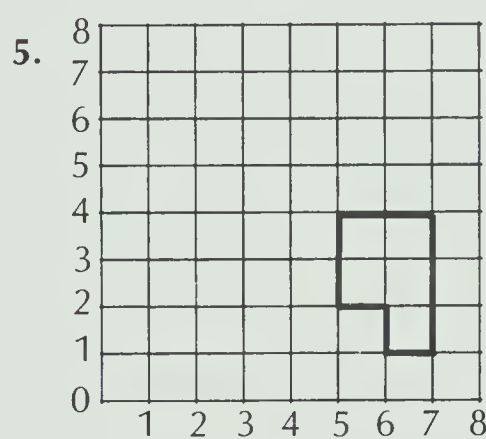
right 2, up 4



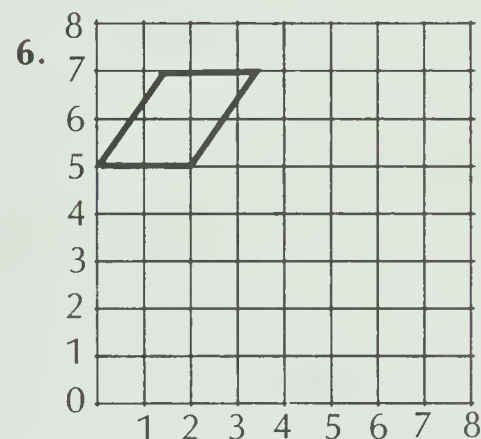
right 5, up 0



left 3, down 4



left 5, up 1



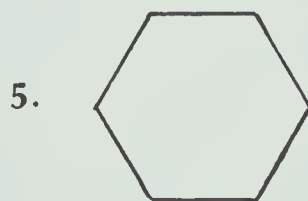
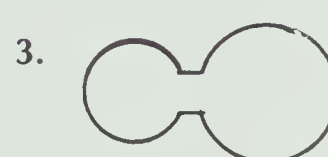
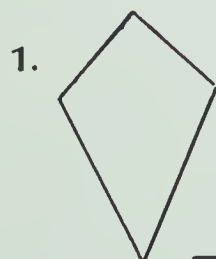
right 3, up 1

Extra Practice

Worksheet G2

Pages 268-269

Draw all the lines of symmetry.



7. List the capital letters that have horizontal lines of symmetry.

8. List the capital letters that have vertical lines of symmetry.

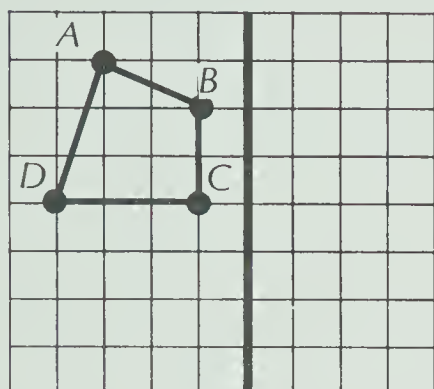
Extra Practice

Worksheet G3

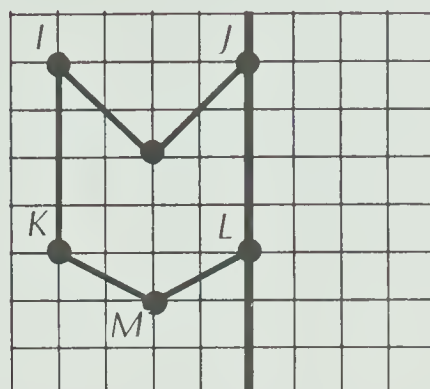
Pages 270-271

Draw the flip image.

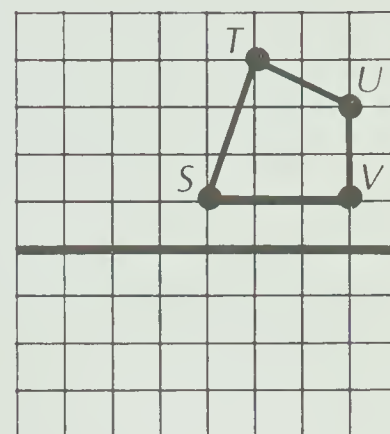
1.



2.

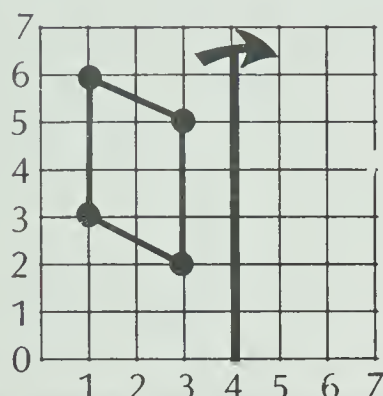


3.

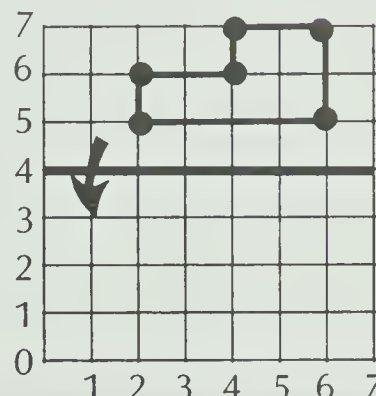


Label each vertex of the flip image with its ordered pair.

4.



5.



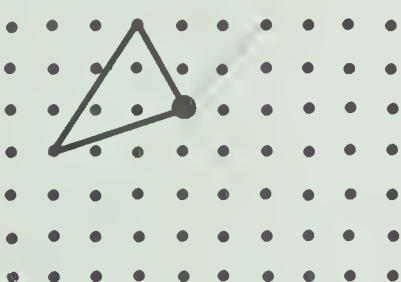
Extra Practice

Worksheet G4

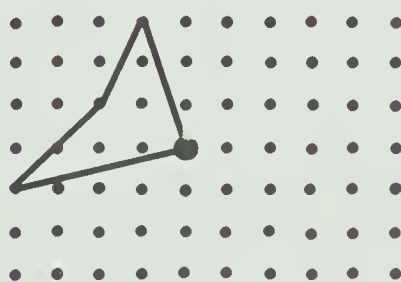
Pages 272-273

Draw the turn image after $\frac{1}{4}$ turn, $\frac{1}{2}$ turn, and $\frac{3}{4}$ turn.

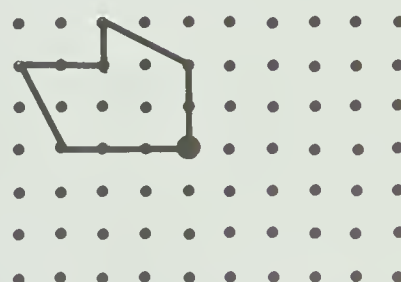
1.



2.

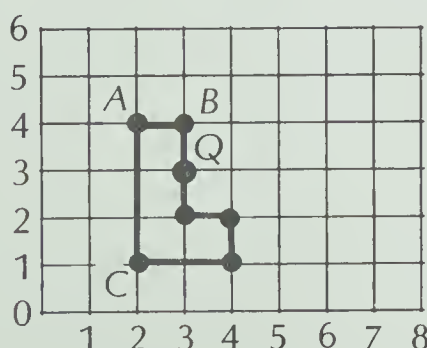


3.



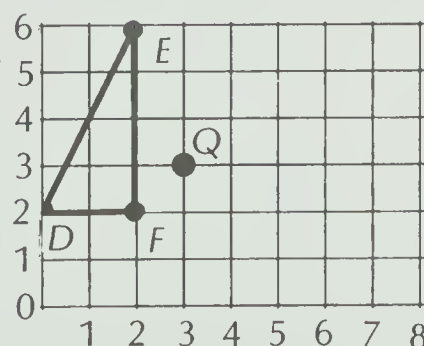
Write the ordered pair for each point after $\frac{1}{2}$ turn about Q.

4.



A (,)
B (,)
C (,)

5.



D (,)
E (,)
F (,)

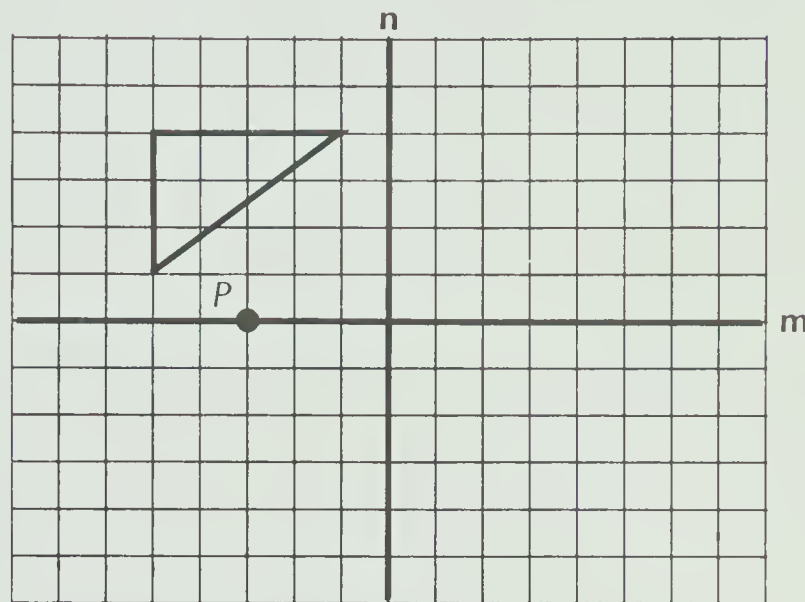
Extra Practice

Worksheet G5

Pages 274-275

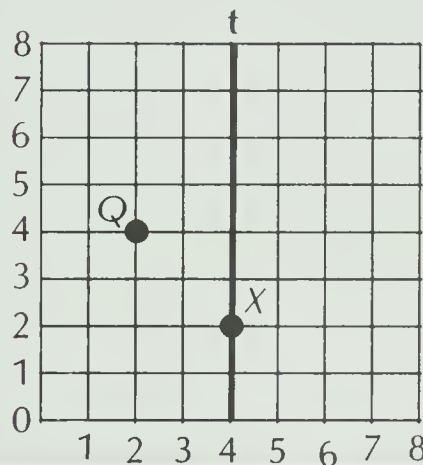
Draw the image of the triangle after each motion.

1. flip over line **m**
2. slide right 6
3. slide right 4, down 4
4. $\frac{1}{2}$ turn about *P*
5. flip over line **n**
6. $\frac{3}{4}$ turn clockwise about *P*



Name the coordinates of the image of *Q*.

7. slide right 3, down 2
8. flip over line **t**
9. $\frac{1}{2}$ turn about *x*

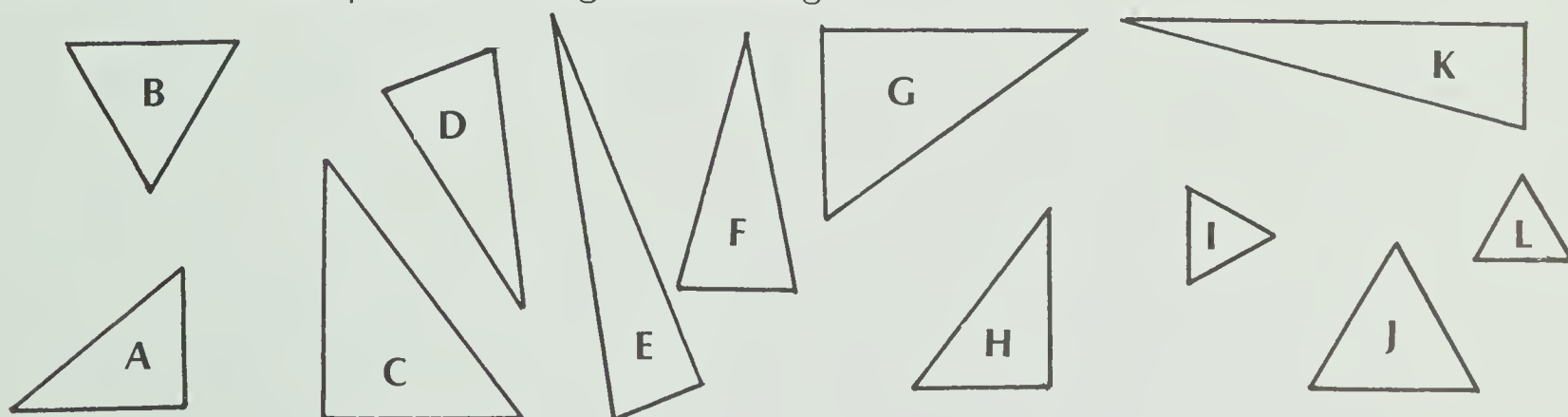


Extra Practice

Worksheet G6

Pages 276-277

Trace and match pairs of congruent triangles.



1. _____
3. _____
5. _____

2. _____
4. _____
6. _____

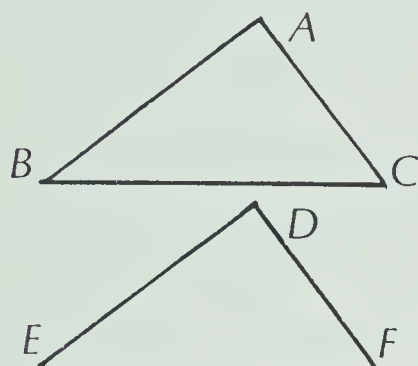
Extra Practice

Worksheet G7

Pages 278-279

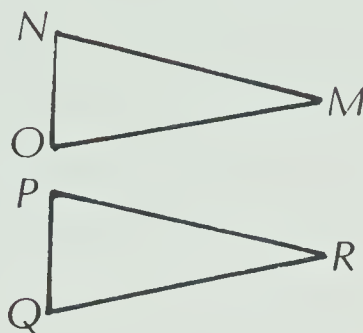
Name the corresponding parts in the congruent triangles.

1.



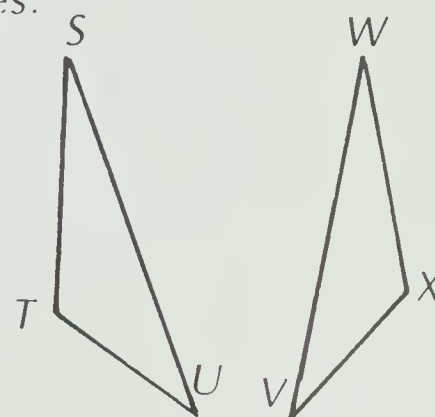
side AB side _____
 side BC side _____
 side _____ side DF

2.



vertex M vertex _____
 vertex N vertex _____
 vertex O vertex _____
 angle O angle _____
 side ON side _____

3.



vertex T vertex _____
 side SU side _____
 angle U angle _____

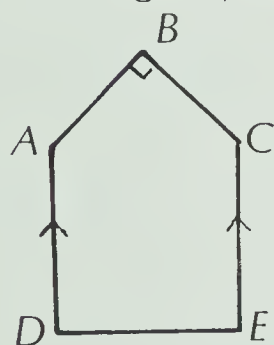
Extra Practice

Worksheet G8

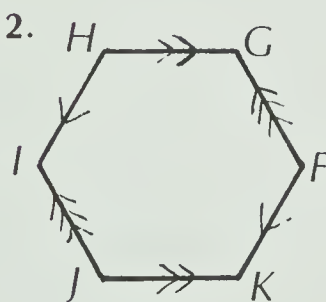
Pages 280-281

For each figure, name all the pairs of parallel and perpendicular segments.

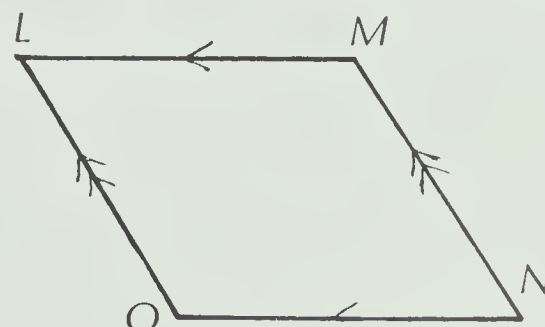
1.



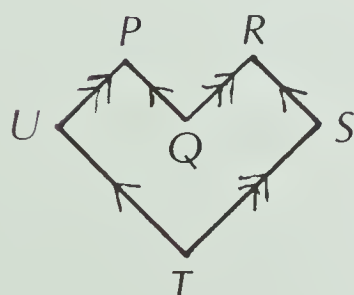
2.



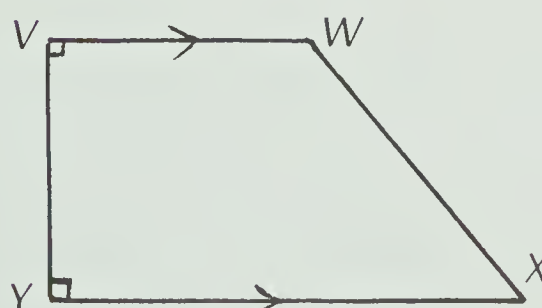
3.



4.



5.



Extra Practice

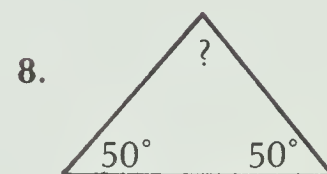
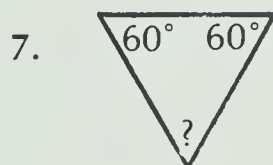
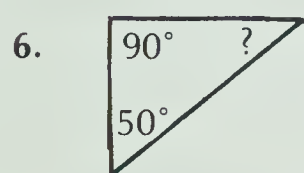
Worksheet G9

Pages 282-283

What type of triangle is it?

1. Sides are all equal. _____
2. Angles are all equal. _____
3. Two sides are equal. _____
4. Two angles are equal. _____
5. Two angles each measure 45° . _____

What is the size of the third angle?



9. 100° , 50° , _____

10. 40° , 70° , _____

11. 45° , 90° , _____

Extra Practice

Worksheet G10

Pages 284-285

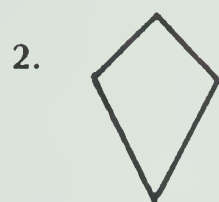
Who am I?

1. I have two pairs of parallel sides. _____
2. I am a rectangle with all sides congruent. _____
3. I am a rhombus with 90° angles. _____
4. I am a parallelogram with all sides congruent. _____
5. I am a parallelogram with 90° angles. _____
6. I am a quadrilateral with exactly two lines of symmetry. _____
7. I am a quadrilateral with four lines of symmetry. _____
8. I have two pairs of equal sides and no lines of symmetry. _____

Post-test

Unit 12

Draw a line of symmetry for each figure.



Draw the image.

Name its coordinates.

5. Slide A right 3, down 2.

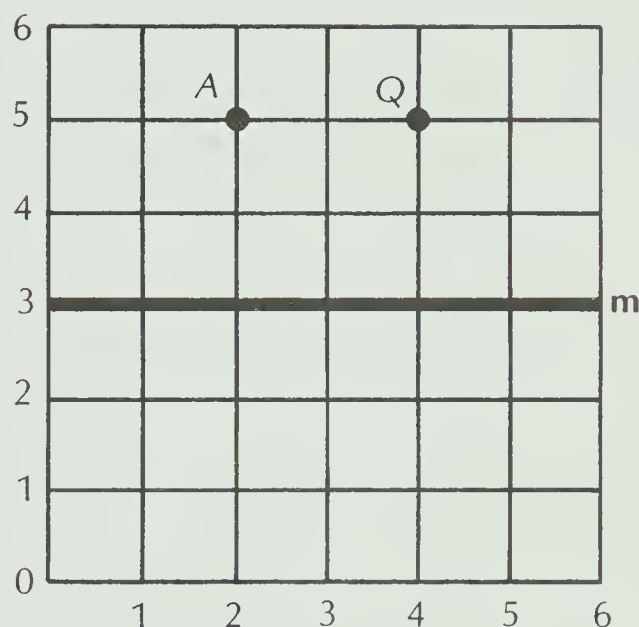
6. Image: (,)

7. Flip A over line m.

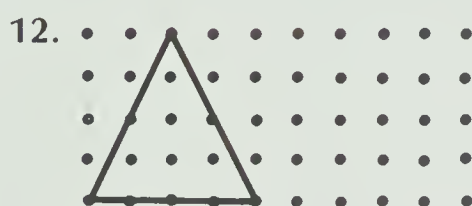
8. Image of A (,)

9. Turn A about Q ($\frac{1}{2}$ turn).

10. Image of A (,)



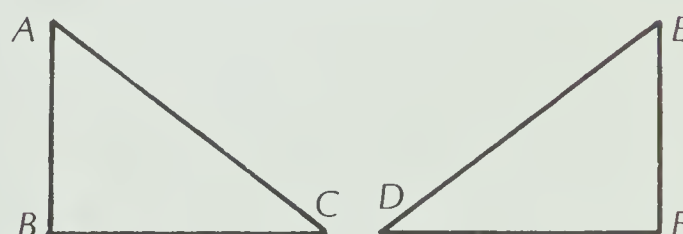
Draw a congruent triangle.



These triangles are congruent.

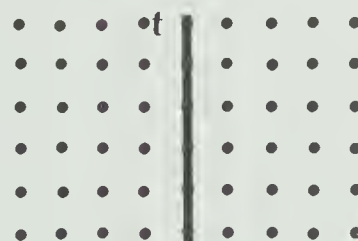
14. Side AB corresponds to side _____.

15. Vertex C corresponds to vertex _____.



16. Draw a line parallel to t.

17. Draw a line perpendicular to t.



18. Two angles in a triangle measure 90° and 60° . The third angle is _____.

Draw and label each.

19. isosceles triangle

20. rectangle

21. parallelogram

22. right triangle

23. square

Pretest

Unit 13

Complete the pattern. State the rule.

1. $(0, 0)$ $(1, 7)$ $(2, 14)$ $(3, 21)$ _____
2. $(1, 19)$ $(2, 20)$ $(3, 21)$ $(4, 22)$ _____

Which temperature is lower?

3. -9°C or -3°C
4. 0°C or -4°C
5. $+8^{\circ}\text{C}$ or $+12^{\circ}\text{C}$

Complete the pattern.

6. $-8, -6, -4, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
7. $+12, +9, +6, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

Complete using $<$ or $>$.

8. $+8$ _____ $+4$
9. -2 _____ -1
10. 0 _____ -5

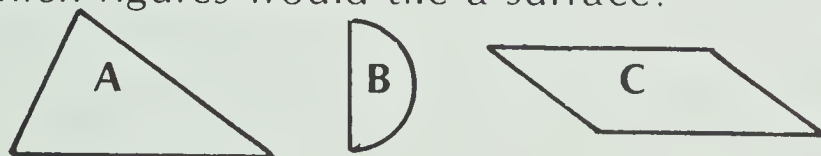
Name the point located by the ordered pair.

11. $(-2, +2)$
12. $(+2, -1)$

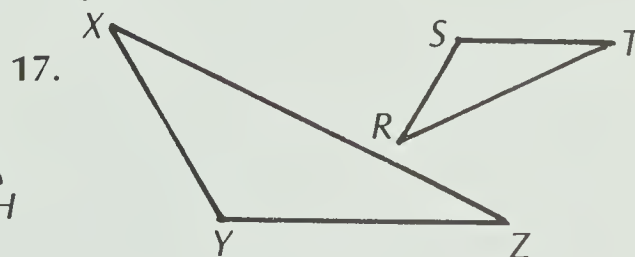
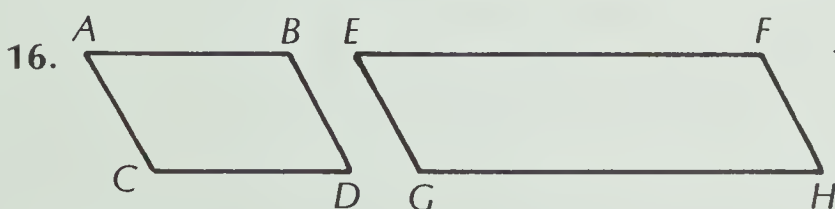
Write the ordered pair for each.

13. M
14. Q

15. Which figures would tile a surface?

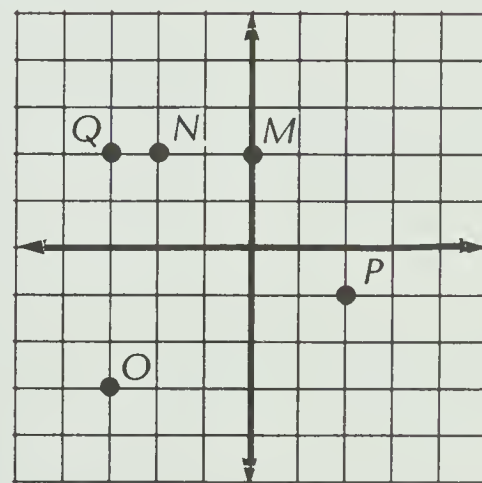


Name the congruent angles in the similar figures.



Complete.

	Scale	Drawing	Real Object
18.	1:200	8 cm	
19.	1:25	7 cm	



Extra Practice

Worksheet GR5

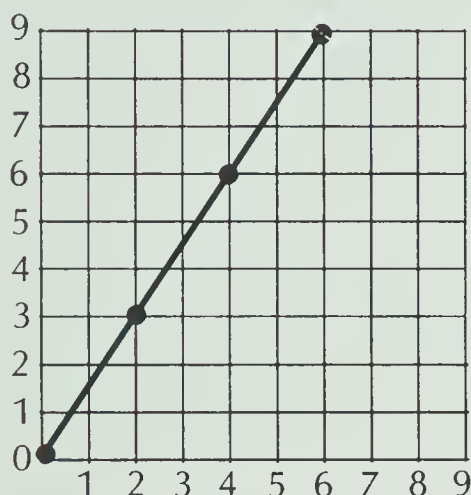
Pages 290-291

Complete the pattern.

1. (2, 7) (3, 8) (4, 9) (5, _____) (_____, _____) (_____, _____)
2. (84, 7) (72, 6) (60, 5) (48, _____) (_____, _____) (_____, _____)
3. (20, 17.5) (16, 13.5) (12, 9.5) (8, _____) (_____, _____)

Use the graph to complete the chart.

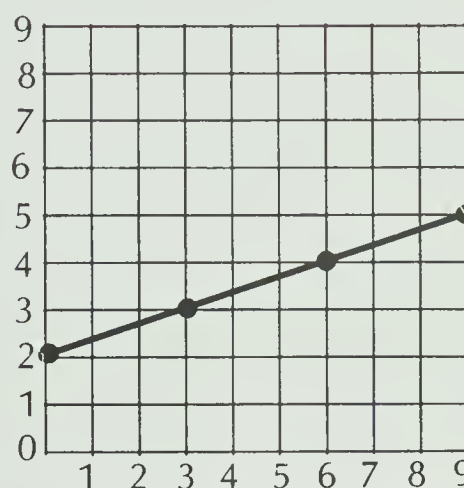
4.



Rule: $\times 3, \div 2$

0	
2	
4	
6	

5.



Rule: $+ 6, \div 3$

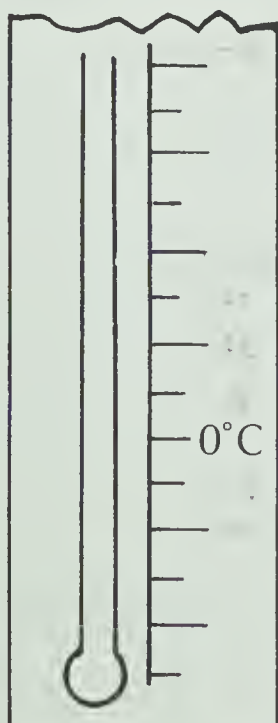
0	
3	
6	
9	

Extra Practice

Worksheet M16

Pages 292-293

1. Write 30°C , 20°C , 10°C , -10°C , and -20°C on the thermometer.



2. Write the letter to match the temperature.

- | | |
|---------------------|--------------------------|
| _____ warm day | a. -12°C |
| _____ hot chocolate | b. 9°C |
| _____ ice water | c. 38°C |
| _____ freezer | d. 82°C |
| _____ cool day | e. 19°C |
| _____ fever | f. 1°C |

3. Write each temperature above on the thermometer.

Extra Practice**Worksheet N21**

Pages 294-295

Label point **C** as zero.

Name the number at the following points.

1. **A** _____
2. **R** _____
3. **Z** _____
4. **D** _____
5. **V** _____
6. **F** _____
7. **Q** _____
8. **W** _____
9. **P** _____
10. **X** _____
11. Point **B** is the same distance from zero as point _____.
12. Point **V** is the same distance from zero as point _____.
13. Point **S** is the same distance from zero as point _____.
14. Write the opposite.
 - a. **K** _____
 - b. **Y** _____
 - c. **R** _____
 - d. **P** _____
 - e. **V** _____
 - f. **+3** _____
 - g. **-5** _____
 - h. **-8** _____
 - i. **+12** _____
 - j. **-7** _____

Extra Practice**Worksheet N22**

Pages 296-297

Write $<$ or $>$.

1. $+7$ _____ $+9$
2. -3 _____ -5
3. $+1$ _____ -1
4. -8 _____ $+8$
5. -4 _____ -7
6. -2 _____ $+3$
7. $+4$ _____ -6
8. -10 _____ $+10$
9. 0 _____ -2

Write in order starting with the least.

10. $+4, -1, +6, -12, 0, -2, +3, -7$ _____
11. $+3, +9, -2, +8, -45, +11, -20$ _____
12. $+212, +45, -526, 0, -27, +100, -100$ _____
13. $-32, +73, -74, -6, +9, -81, +85$ _____

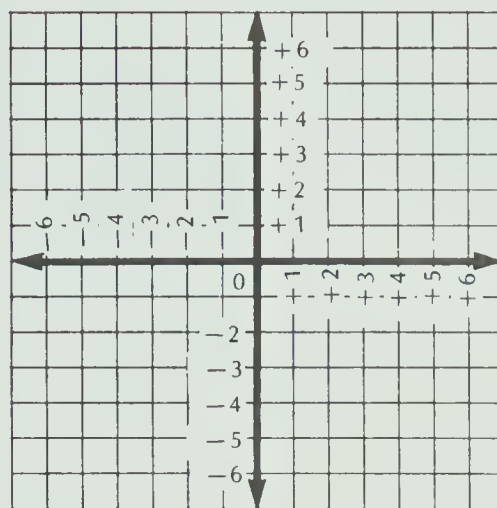
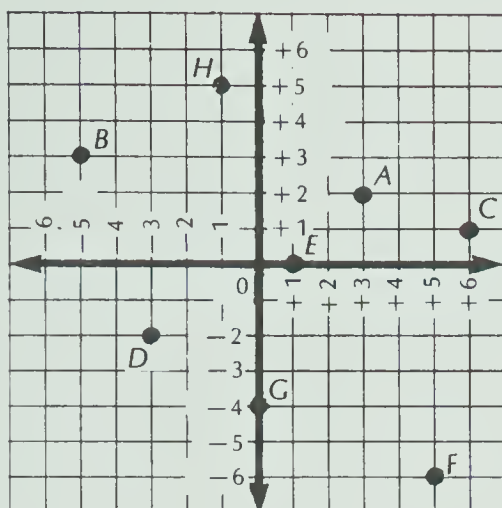
Complete.

14. $-20, -15, -10, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$

Extra Practice

Worksheet GR6

Pages 298-299



Write the ordered pair for the point.

1. A _____
2. B _____
3. C _____
4. D _____
5. E _____
6. F _____
7. G _____
8. H _____

Plot the points. Join them in order.

Name the figure.

9. $(0, +3)$ $(+3, 0)$ $(0, -3)$ $(-3, 0)$
10. $(+4, +1)$ $(-2, +2)$ $(+6, +5)$
11. $(+2, +5)$ $(+5, +1)$ $(-5, -5)$ $(-4, -2)$

Extra Practice

Worksheet PS13

Pages 300-301

Complete the pattern.

1. $(+1, -4)$ $(+2, -8)$ $(+3, -12)$ $(+4, -16)$ _____, _____, _____
2. 1, 1, 2, 3, 5, 8, _____, _____, _____
3. $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8},$ _____, _____, _____
4. 10:48 A.M., 10:52 A.M., 10:56 A.M., _____, _____, _____

Solve by using a pattern.

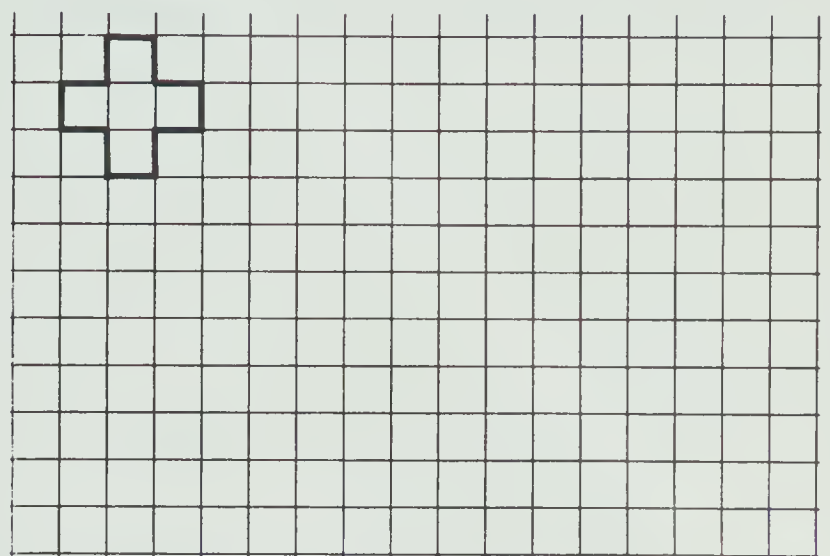
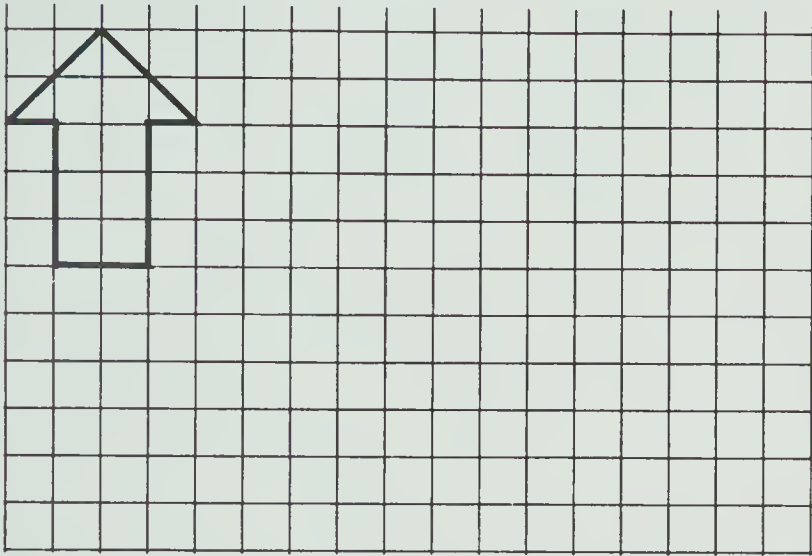
5. A certain species of bacteria grows by splitting in half every few minutes. After 1 division, there are 2 bacteria. After 2 divisions, there are 4 bacteria. After 3 divisions, there are 8 bacteria, and so on. How many bacteria will there be after 10 divisions? _____
6. It costs \$3.90 to make a 3 min telephone call from Kelsey to Tignish, \$4.80 for a 4 min call, \$5.70 for a 5 min call, and so on. How much will a 10 min call cost?

Extra Practice

Worksheet G11

Pages 302-303

Tile the surface with the figure. Use different colours.



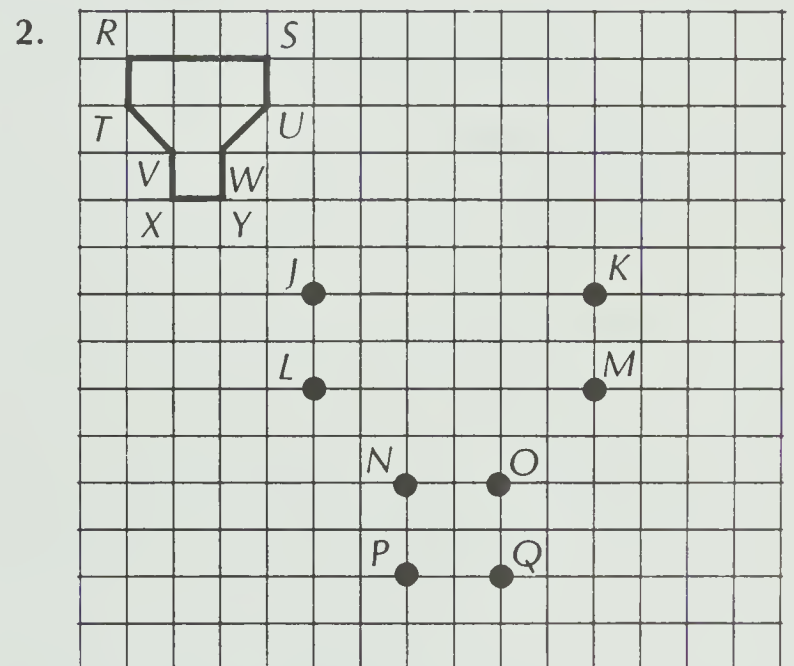
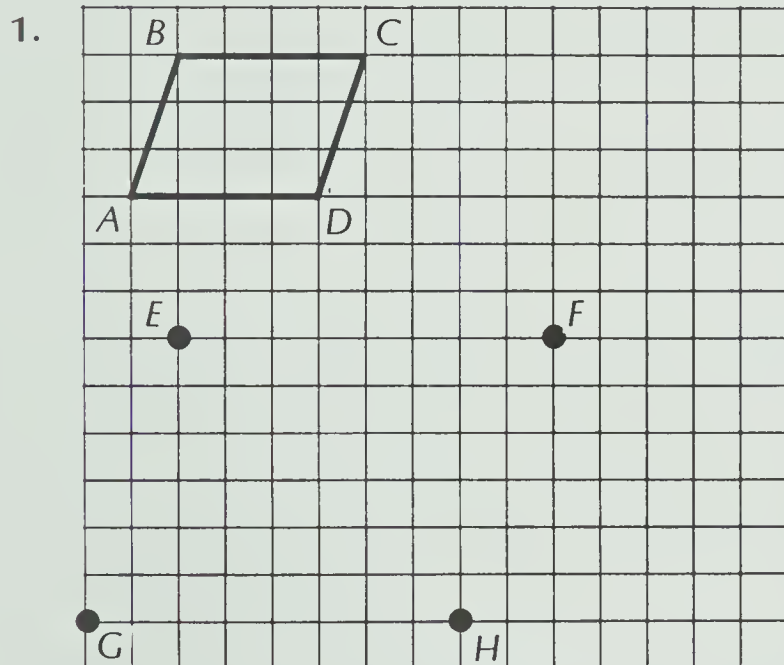
Extra Practice

Worksheet G12

Pages 304-305

Make a similar figure that is double in size.

Name the corresponding angles of the similar figures.



1. Corresponding, equal angles:

- A and _____
- B and _____
- C and _____
- D and _____

2. Corresponding, equal angles:

- R and _____
- S and _____
- T and _____
- U and _____
- V and _____
- W and _____
- X and _____
- Y and _____

Extra Practice

Worksheet G13

Pages 306-307

Find the distances between each pair of cities.

Kilometres	Bastia	Ajaccio	Alghero	Nuoro	Muravera	Caligari
Bastia						
Ajaccio						
Alghero						
Nuoro						
Muravera						
Caligari						



Extra Practice

Worksheet PS14

Pages 308-309

Solve.

1. A room measures 5 m × 6 m. How much will it cost to carpet the room if the carpet costs \$18.75/m²?
2. It costs \$276, \$321, and \$285 to heat the Sherman’s home in the three winter months. What is the average monthly cost of heating their home in the winter?
3. Ms. Tynan is given a car allowance of 16.5¢/km for business trips and a daily meal allowance of \$18. Last week she was out on business for 3 days and travelled 526 km. How much money should she ask for on her expense account?
4. Victor bought a bed at a 15% discount. The original price was \$285. How much did he pay for the bed?

Post-test

Unit 13

Complete the pattern. State the rule.

1. (1, 1) (2, 4) (3, 9) (4, 16) _____
2. (0, 0) (1, 9) (2, 18) (3, 27) _____

Which temperature is higher?

3. $+4^{\circ}\text{C}$ or -8°C
4. 0°C or $+1^{\circ}\text{C}$
5. -2°C or -10°C

Complete the pattern.

6. $-5, -4, -3, \text{ ______}, \text{ ______}, \text{ ______}$
7. $+4, +3, +2, \text{ ______}, \text{ ______}, \text{ ______}$

Complete using $<$ or $>$.

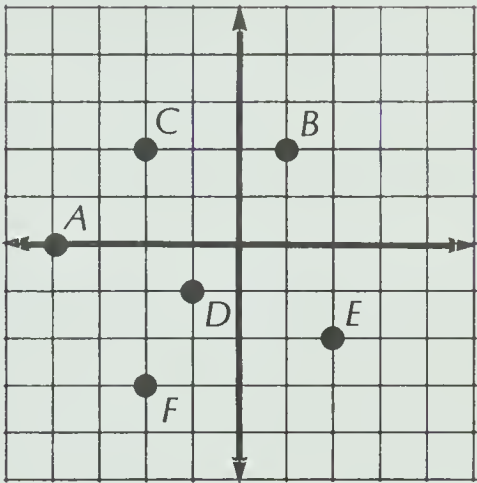
8. $-5 \text{ ______ } -2$
9. $+3 \text{ ______ } +1$
10. $-7 \text{ ______ } 0$

Name the point located by the ordered pair.

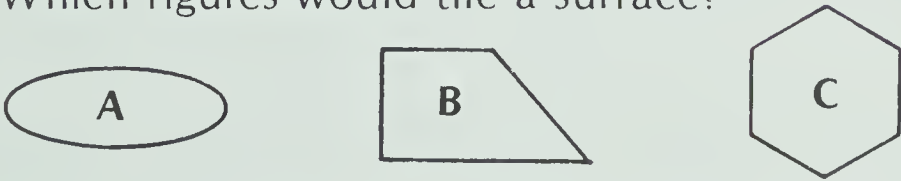
11. $(-4, 0)$
12. $(-2, -3)$

Write the ordered pair for each.

13. *B*
14. *D*



15. Which figures would tile a surface?



Name the congruent angles in the similar figures.

16.
17.

Complete.

	Scale	Drawing	Real Object
18.	1:8	14 cm	
19.	1:12	25 cm	

Pretest**Unit 14**

Add or subtract. Write the answer in simplest terms.

1. $\frac{4}{11} + \frac{3}{11} = \underline{\hspace{2cm}}$

2. $\frac{4}{5} + \frac{3}{5} = \underline{\hspace{2cm}}$

3. $\frac{5}{8} + \frac{5}{8} = \underline{\hspace{2cm}}$

4. $\frac{1}{3} + \frac{5}{9} = \underline{\hspace{2cm}}$

5. $\frac{5}{12} + \frac{1}{3} = \underline{\hspace{2cm}}$

6. $\frac{4}{5} + \frac{8}{15} = \underline{\hspace{2cm}}$

7. $\frac{4}{7} + \frac{3}{14} = \underline{\hspace{2cm}}$

8. $\frac{5}{6} + \frac{5}{9} = \underline{\hspace{2cm}}$

9. $\frac{3}{8} + \frac{7}{12} = \underline{\hspace{2cm}}$

10. $\frac{3}{7} + \frac{8}{9} = \underline{\hspace{2cm}}$

11. $\frac{7}{9} + \frac{1}{4} = \underline{\hspace{2cm}}$

12. $2\frac{7}{8} + 5\frac{1}{3} = \underline{\hspace{2cm}}$

13. $2\frac{3}{4} + 7\frac{5}{6} = \underline{\hspace{2cm}}$

14. $1\frac{5}{11} + 1\frac{1}{2} = \underline{\hspace{2cm}}$

15. $3\frac{11}{15} + 1\frac{1}{6} = \underline{\hspace{2cm}}$

16. $\frac{9}{10} - \frac{1}{2} = \underline{\hspace{2cm}}$

17. $\frac{19}{27} - \frac{5}{9} = \underline{\hspace{2cm}}$

18. $\frac{17}{30} - \frac{1}{15} = \underline{\hspace{2cm}}$

19. $\frac{3}{4} - \frac{2}{9} = \underline{\hspace{2cm}}$

20. $\frac{5}{6} - \frac{4}{5} = \underline{\hspace{2cm}}$

21. $\frac{7}{8} - \frac{3}{20} = \underline{\hspace{2cm}}$

22. $9\frac{7}{10} - 5\frac{4}{15} = \underline{\hspace{2cm}}$

23. $4\frac{4}{5} - 1\frac{5}{9} = \underline{\hspace{2cm}}$

24. $6\frac{8}{9} - 2\frac{3}{4} = \underline{\hspace{2cm}}$

25. $11\frac{5}{6} - 8\frac{3}{4} = \underline{\hspace{2cm}}$

26. $7\frac{1}{10} - 2\frac{2}{5} = \underline{\hspace{2cm}}$

27. $6\frac{1}{8} - 2\frac{1}{2} = \underline{\hspace{2cm}}$

28. $8\frac{3}{16} - 2\frac{3}{4} = \underline{\hspace{2cm}}$

29. $5\frac{1}{7} - 2\frac{7}{9} = \underline{\hspace{2cm}}$

30. $4\frac{1}{3} - 1\frac{5}{8} = \underline{\hspace{2cm}}$

What is the probability of rolling:

31. a 3?



33. a 7?

32. an even number?

34. a number less than 5?

Extra Practice

Worksheet A61

Pages 314-315

Add. Write the sum in simplest terms.

1.  + 

$$\frac{1}{3} + \frac{1}{3} = \underline{\hspace{2cm}}$$

2.  + 

$$\frac{2}{5} + \frac{4}{5} = \underline{\hspace{2cm}}$$

3.  + 

$$\frac{6}{8} + \frac{4}{8} = \underline{\hspace{2cm}}$$

4. $\frac{1}{6} + \frac{4}{6} = \underline{\hspace{2cm}}$

5. $\frac{5}{9} + \frac{2}{9} = \underline{\hspace{2cm}}$

6. $\frac{6}{10} + \frac{5}{10} = \underline{\hspace{2cm}}$

7. $\frac{8}{12} + \frac{8}{12} = \underline{\hspace{2cm}}$

8. $\frac{4}{7} + \frac{8}{7} = \underline{\hspace{2cm}}$

9. $\frac{4}{5} + \frac{1}{5} = \underline{\hspace{2cm}}$

10. $\frac{9}{12} + \frac{7}{12} = \underline{\hspace{2cm}}$

11. $\frac{14}{15} + \frac{6}{15} = \underline{\hspace{2cm}}$

12. $\frac{16}{20} + \frac{8}{20} = \underline{\hspace{2cm}}$

13. At breakfast, $\frac{5}{12}$ of a loaf of bread was eaten. At lunch, $\frac{6}{12}$ of the loaf was eaten. How much of the loaf was eaten altogether?

Extra Practice


Worksheet A62

Pages 316-317



Add. Write the sum in simplest terms.

1.  + 

$$\frac{1}{4} + \frac{1}{2} = \underline{\hspace{2cm}}$$

2.  + 

$$\frac{2}{6} + \frac{1}{3} = \underline{\hspace{2cm}}$$

3.  + 

$$\frac{3}{4} + \frac{1}{8} = \underline{\hspace{2cm}}$$

4. $\frac{3}{5} + \frac{1}{10} = \underline{\hspace{2cm}}$

5. $\frac{3}{10} + \frac{7}{20} = \underline{\hspace{2cm}}$

6. $\frac{5}{6} + \frac{7}{12} = \underline{\hspace{2cm}}$

7.
$$\begin{array}{r} \frac{9}{11} \\ + \frac{8}{22} \\ \hline \end{array}$$

8.
$$\begin{array}{r} \frac{4}{5} \\ + \frac{6}{15} \\ \hline \end{array}$$

9.
$$\begin{array}{r} \frac{3}{9} \\ + \frac{15}{18} \\ \hline \end{array}$$

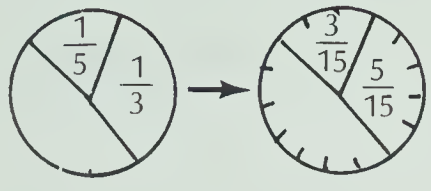
10. Five eighths of the cost of a hamburger made at home is for meat. One fourth of the cost is for the bun. What part is left for the catsup, mustard, and relish?

Extra Practice

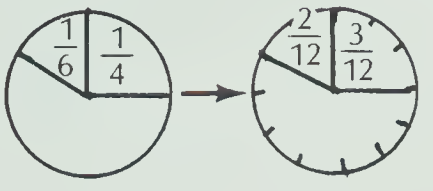
Worksheet A63

Pages 318-319

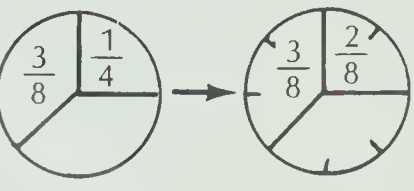
Add. Write the sum in simplest terms.

1. 

$$\frac{1}{3} + \frac{1}{5} = \underline{\hspace{2cm}}$$

2. 

$$\frac{1}{6} + \frac{1}{4} = \underline{\hspace{2cm}}$$

3. 

$$\frac{3}{8} + \frac{1}{4} = \underline{\hspace{2cm}}$$

4. $\frac{5}{6} + \frac{3}{8} = \underline{\hspace{2cm}}$

5. $\frac{1}{6} + \frac{5}{9} = \underline{\hspace{2cm}}$

6. $\frac{2}{3} + \frac{1}{8} = \underline{\hspace{2cm}}$

7.
$$\begin{array}{r} \frac{3}{4} \\ + \frac{1}{5} \\ \hline \end{array}$$

8.
$$\begin{array}{r} \frac{2}{3} \\ + \frac{3}{5} \\ \hline \end{array}$$

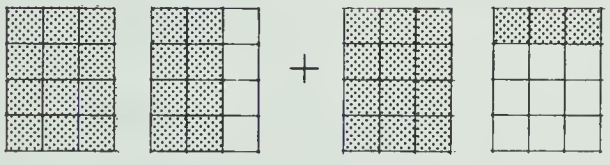
9.
$$\begin{array}{r} \frac{5}{6} \\ + \frac{3}{4} \\ \hline \end{array}$$

Extra Practice

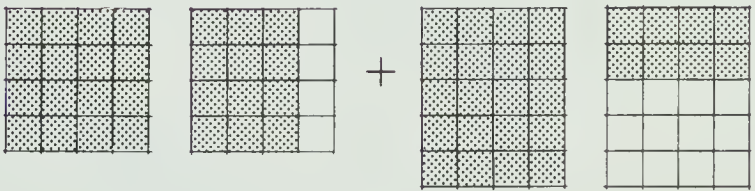
Worksheet A64

Pages 320-321

Add. Write the sum in simplest terms.

1. 

$$1\frac{2}{3} + 1\frac{1}{4} = \underline{\hspace{2cm}}$$

2. 

$$1\frac{3}{4} + 1\frac{2}{5} = \underline{\hspace{2cm}}$$

3.
$$\begin{array}{r} 3\frac{5}{8} \\ + \frac{3}{4} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 2\frac{1}{5} \\ + 3\frac{3}{4} \\ \hline \end{array}$$

5.
$$\begin{array}{r} 5\frac{2}{9} \\ + 3\frac{1}{4} \\ \hline \end{array}$$

6.
$$\begin{array}{r} 4\frac{1}{6} \\ + 3\frac{3}{4} \\ \hline \end{array}$$

7. $1\frac{1}{2} + 3\frac{1}{3} = \underline{\hspace{2cm}}$ 8. $6\frac{1}{4} + 1\frac{1}{3} = \underline{\hspace{2cm}}$ 9. $1\frac{2}{3} + 2\frac{2}{5} = \underline{\hspace{2cm}}$

10. For a class party, the boys ate $3\frac{1}{2}$ dozen hot dogs and the girls ate $2\frac{2}{3}$ dozen.
- Altogether, how many dozen were eaten?
 - How many hot dogs were eaten in all?

Extra Practice

Worksheet A65

Pages 322-323

Subtract. Write the answer in simplest terms.



$$\frac{3}{10} - \frac{1}{5} = \underline{\hspace{2cm}}$$



$$\frac{7}{12} - \frac{1}{4} = \underline{\hspace{2cm}}$$



$$\frac{5}{6} - \frac{1}{2} = \underline{\hspace{2cm}}$$

4.
$$\begin{array}{r} \frac{5}{16} \\ - \frac{1}{4} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{1}{2} \\ - \frac{3}{8} \\ \hline \end{array}$$

6.
$$\begin{array}{r} \frac{9}{20} \\ - \frac{1}{4} \\ \hline \end{array}$$

7.
$$\begin{array}{r} \frac{11}{14} \\ - \frac{1}{7} \\ \hline \end{array}$$

8.
$$\frac{7}{10} - \frac{3}{5} = \underline{\hspace{2cm}}$$

9.
$$\frac{1}{2} - \frac{1}{4} = \underline{\hspace{2cm}}$$

10.
$$\frac{7}{8} - \frac{3}{4} = \underline{\hspace{2cm}}$$

Solve.

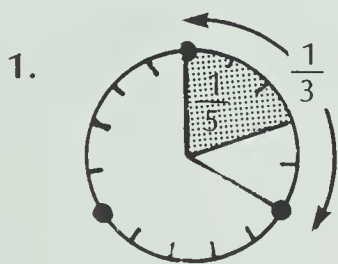
11. The milk bottle is $\frac{3}{4}$ full. Bill uses $\frac{1}{4}$ bottle for breakfast.
How much is left?

Extra Practice

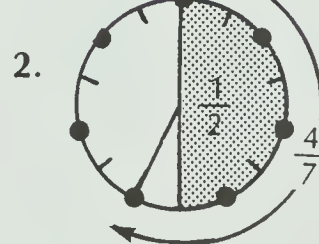
Worksheet A66

Pages 324-325

Subtract. Write the answer in simplest terms.



$$\frac{1}{3} - \frac{1}{5} = \underline{\hspace{2cm}}$$



$$\frac{4}{7} - \frac{1}{2} = \underline{\hspace{2cm}}$$

3.
$$\begin{array}{r} \frac{1}{2} \\ - \frac{1}{5} \\ \hline \end{array}$$

4.
$$\begin{array}{r} \frac{3}{4} \\ - \frac{1}{6} \\ \hline \end{array}$$

5.
$$\begin{array}{r} \frac{5}{9} \\ - \frac{1}{4} \\ \hline \end{array}$$

6.
$$\begin{array}{r} \frac{7}{8} \\ - \frac{2}{3} \\ \hline \end{array}$$

7.
$$\frac{5}{6} - \frac{3}{8} = \underline{\hspace{2cm}}$$

8.
$$\frac{5}{9} - \frac{1}{2} = \underline{\hspace{2cm}}$$

9.
$$\frac{7}{10} - \frac{1}{4} = \underline{\hspace{2cm}}$$


10. It takes $\frac{2}{3}$ of an hour to bake cookies and $\frac{3}{4}$ of an hour to bake a cake. How much longer does it take to bake the cake?

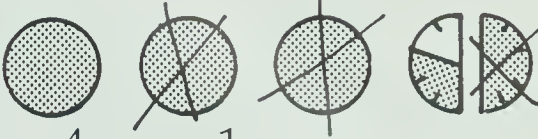
Extra Practice

Worksheet A67

Pages 326-327

Subtract. Write the difference in simplest terms.

1. 
 $2\frac{5}{8} - 1\frac{1}{4} = \underline{\hspace{2cm}}$

2. 
 $3\frac{4}{5} - 2\frac{1}{2} = \underline{\hspace{2cm}}$

3. $4\frac{1}{2}$
 $- 3\frac{3}{8}$

4. $7\frac{7}{8}$
 $- 3\frac{1}{3}$

5. $2\frac{3}{4}$
 $- 1\frac{3}{10}$

6. $7\frac{5}{6}$
 $- 4\frac{1}{4}$

7. $7\frac{7}{10} - 2\frac{5}{15} = \underline{\hspace{2cm}}$ 8. $9\frac{4}{5} - 2\frac{3}{4} = \underline{\hspace{2cm}}$ 9. $2\frac{5}{8} - 1\frac{1}{3} = \underline{\hspace{2cm}}$

Solve.


10. The class had $5\frac{1}{2}$ watermelons. The girls ate $2\frac{1}{6}$ of the watermelons and the boys ate the rest. How much did the boys eat?


Extra Practice

Worksheet A68

Pages 328-329

Subtract. Write the difference in simplest terms.

1. 
 $4\frac{1}{5} - 1\frac{1}{3} = \underline{\hspace{2cm}}$

2. 
 $2\frac{1}{2} - 1\frac{3}{4} = \underline{\hspace{2cm}}$

3. $5\frac{1}{2}$
 $- 1\frac{2}{3}$

4. $8\frac{5}{8}$
 $- 6\frac{3}{4}$

5. $1\frac{3}{10}$
 $- \frac{1}{2}$

6. $6\frac{1}{4}$
 $- 3\frac{2}{3}$

7. $7\frac{3}{16} - 4\frac{7}{8} = \underline{\hspace{2cm}}$ 8. $4\frac{3}{10} - 2\frac{1}{3} = \underline{\hspace{2cm}}$ 9. $9\frac{7}{15} - \frac{7}{10} = \underline{\hspace{2cm}}$

Solve.

10. There are $2\frac{1}{2}$ dozen eggs in the refrigerator. If $1\frac{3}{4}$ dozen are used for breakfast, how many dozen remain?

Extra Practice**Worksheet A69**

Pages 330-331

Suppose you shuffled these cards and then placed them face down.



The top card is turned over. What is the probability that it is:

1. a 7 _____
 2. a 1, 2, or 3 _____
 3. an even number _____
 4. a number less than 11 _____
 5. a number greater than 8 _____
 6. a 15 _____
 7. a multiple of 2 _____
 8. an odd number _____
 9. a prime number _____
 10. a number evenly divisible by 3 _____
-

Extra Practice**Worksheet PS15**

Pages 332-333

Solve each problem using a diagram or model.

1. What solid has a circular edge and only one vertex?
2. A circle fits inside a 2 m square so that it just touches each side of the square. What is the area of the part of the square that is outside the circle? (Use $\pi = 3.14$; see page 106 of the pupil book.)
3. How many different 3-digit numerals can be written?
4. A coin is tossed and a die is rolled. What is the probability of obtaining a head and a three?

Post-test**Unit 14**

Add or subtract. Write the answer in simplest terms.

1. $\frac{6}{10} + \frac{3}{10} = \underline{\hspace{2cm}}$
2. $\frac{2}{12} + \frac{7}{12} = \underline{\hspace{2cm}}$
3. $\frac{6}{7} + \frac{5}{7} = \underline{\hspace{2cm}}$
4. $\frac{1}{2} + \frac{3}{8} = \underline{\hspace{2cm}}$
5. $\frac{4}{5} + \frac{7}{10} = \underline{\hspace{2cm}}$
6. $\frac{3}{7} + \frac{9}{14} = \underline{\hspace{2cm}}$
7. $\frac{5}{8} + \frac{7}{16} = \underline{\hspace{2cm}}$
8. $\frac{5}{6} + \frac{4}{15} = \underline{\hspace{2cm}}$
9. $\frac{7}{10} + \frac{1}{4} = \underline{\hspace{2cm}}$
10. $\frac{3}{4} + \frac{3}{5} = \underline{\hspace{2cm}}$
11. $\frac{3}{18} + \frac{11}{12} = \underline{\hspace{2cm}}$
12. $5\frac{6}{7} + 1\frac{3}{5} = \underline{\hspace{2cm}}$
13. $3\frac{1}{3} + 1\frac{1}{2} = \underline{\hspace{2cm}}$
14. $2\frac{3}{5} + 4\frac{2}{3} = \underline{\hspace{2cm}}$
15. $4\frac{7}{9} + 10\frac{5}{6} = \underline{\hspace{2cm}}$
16. $\frac{11}{12} - \frac{1}{4} = \underline{\hspace{2cm}}$
17. $\frac{15}{20} - \frac{1}{5} = \underline{\hspace{2cm}}$
18. $\frac{2}{3} - \frac{11}{24} = \underline{\hspace{2cm}}$
19. $\frac{7}{12} - \frac{2}{9} = \underline{\hspace{2cm}}$
20. $\frac{6}{7} - \frac{3}{5} = \underline{\hspace{2cm}}$
21. $\frac{11}{15} - \frac{1}{6} = \underline{\hspace{2cm}}$
22. $5\frac{3}{4} - 2\frac{1}{2} = \underline{\hspace{2cm}}$
23. $8\frac{7}{8} - 6\frac{2}{3} = \underline{\hspace{2cm}}$
24. $3\frac{5}{9} - 2\frac{1}{6} = \underline{\hspace{2cm}}$
25. $5\frac{11}{12} - 2\frac{3}{8} = \underline{\hspace{2cm}}$
26. $4\frac{1}{3} - 2\frac{5}{6} = \underline{\hspace{2cm}}$
27. $10\frac{3}{5} - 6\frac{9}{10} = \underline{\hspace{2cm}}$
28. $16\frac{1}{6} - 5\frac{7}{9} = \underline{\hspace{2cm}}$
29. $10\frac{3}{4} - 7\frac{6}{7} = \underline{\hspace{2cm}}$
30. $7\frac{1}{12} - 1\frac{7}{18} = \underline{\hspace{2cm}}$

There are 2 red blocks, 1 orange block, 1 yellow block, 2 blue blocks, 1 green block, and 3 black blocks in a bag. A block is picked without looking. What is the probability the block will be:

31. black
32. brown
33. red or blue
34. red, yellow or black?

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